AUDIO VIDEO SURROUND RECEIVER

KRF-V4530D
KRF-V5030D/V5030DE/V5030D-S
KRF-V6030D/V6030DE/V6030D-S
VR-405/406/414
SERVICE MANUAL

KENWOOD

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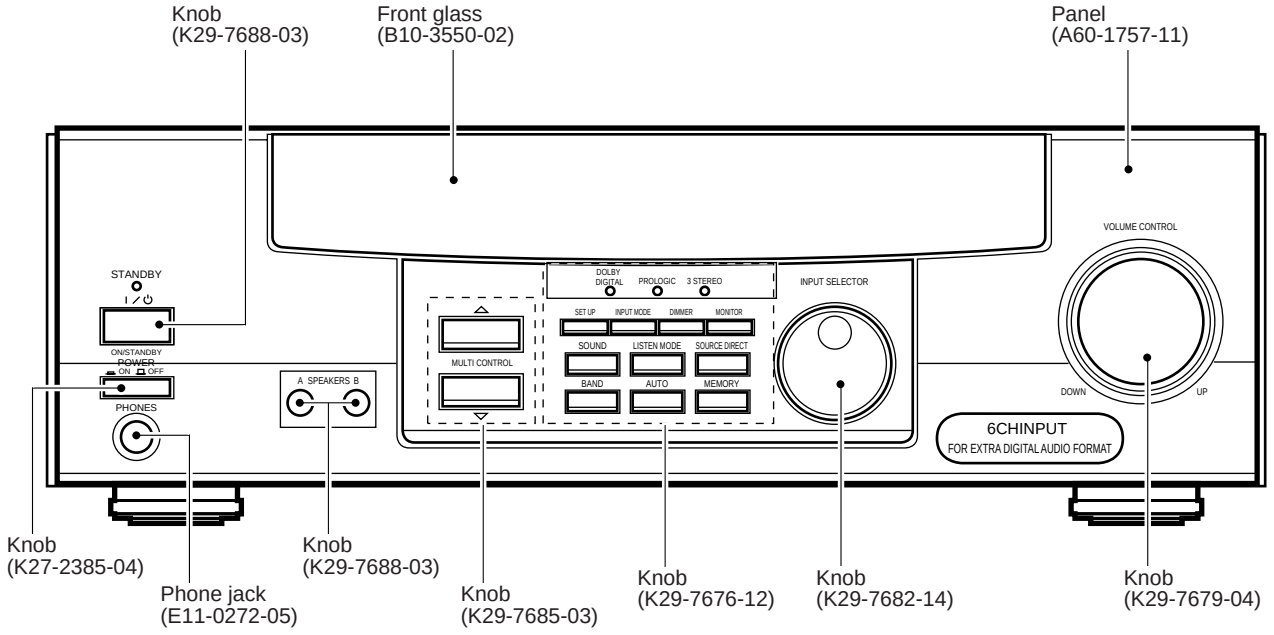
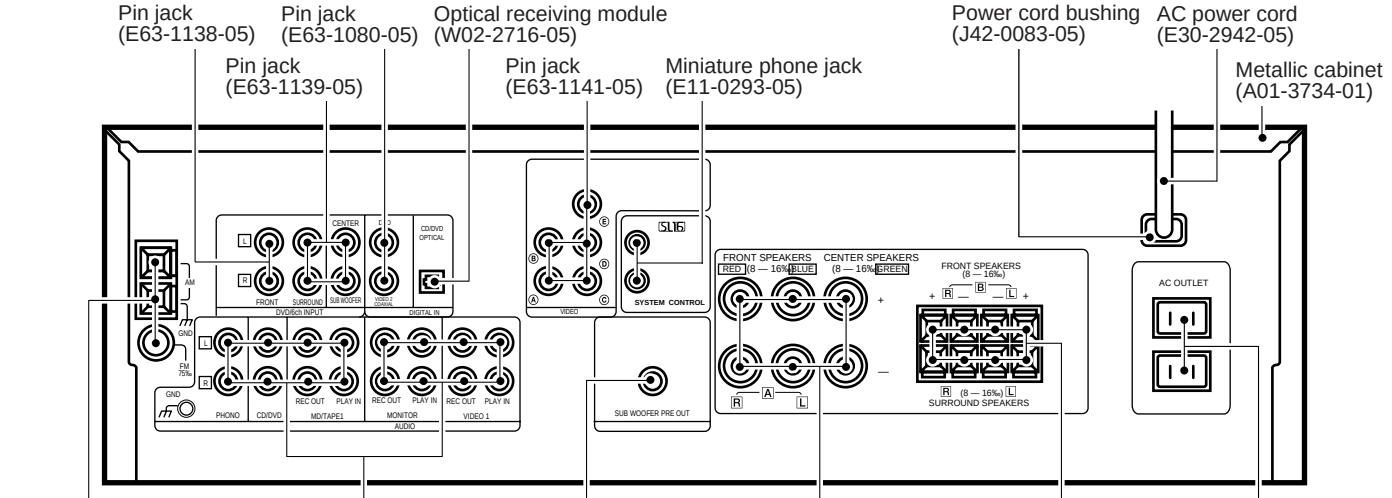
Note: On circuit description, please refer to KRF-V7030D service manual(B51-5598-00).





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Illust. is KRF-V6030D-S(M).

KRF-V4530D/V5030D/V6030D/VR-405/406/414

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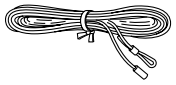
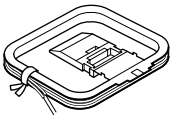
Accessories

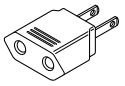
FM indoor antenna (1)
(T90-0836-05)



AM loop antenna (1)
(T90-0852-05)



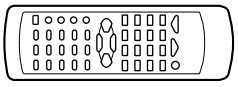
*AC plug adaptor (1)
(E03-0115-05)



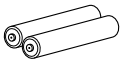
*Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

For VR-406 and KRF-V6030D

Remote control unit (1)
(A70-1330-05): RC-R0609
(A70-1331-05): RC-R0610(E type)



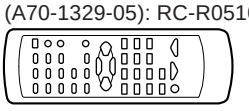
Batteries (R6/AA) (2)



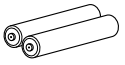
Battery cover (A09-1178-08)

For VR-405, VR-414, KRF-V5030D, and KRF-V4530D

Remote control unit (1)
(A70-1328-05): RC-R0509
(A70-1329-05): RC-R0510(E,T type)



Batteries (R6/AA) (2)



Battery cover (A09-1178-08)

Cautions

Copy from instruction manual.

The manual covers the VR-407, VR-406, VR-405, VR-414, KRF-V7030D, KRF-V6030D, KRF-V5030D, and KRF-V4530D. Items such as functions, number of jacks, and remote control details differ somewhat between these models. To confirm the functions available on the model you have purchased, refer to the table below.

Model name	Remote Control		Terminal	
		Speaker out	VIDEO 3 jacks	Front input
VR-407 KRF-V7030D	RC-R0609	2 systems (A, B)	Equipped	Equipped
VR-406 KRF-V6030D	RC-R0609	2 systems (A, B)	Not equipped	Not equipped
VR-405/414 KRF-V5030D/ V4530D	RC-R0509	1 system	Not equipped	Not equipped

This manual is divided into four sections, Preparations, Operations, Other, and Remote Control.

Remote Control (Separate booklet) (VR-407/VR-406/KRF-V7030D/KRF-V6030D only)

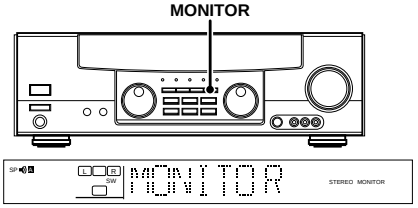
Includes the "Quick Start Guide," which shows you how to operate other components using the remote control, as well as a detailed explanation of all remote control operations. Once you have registered your components with the proper setup codes, you'll be able to operate both this receiver and your other AV components (TV, VCR, DVD player, LD player, CD player, etc.) using the remote control supplied with this receiver.

VIDEO 2/MONITOR jacks (for VR-406/405/414/KRF-V6030D/V5030D/V4530D)

The receiver's **VIDEO 2/MONITOR** jacks can be used in two different ways. Make the appropriate setting for the component connected to the jack when the receiver is turned on.

Use as a VIDEO 2 jack
You can connect a video deck or the like to these jacks and perform video playback and recording. The initial factory setting is "**VIDEO 2"**.

Use as a MONITOR jack
You can connect a cassette deck or the like to these jacks and make use of the deck's monitoring function during recording. Alternately, you can connect a graphic equalizer to these jacks to apply compensation to the music signal.
To use the **VIDEO 2/MONITOR** jacks as **MONITOR** jacks, hold down the **MONITOR** key of the main unit for more two seconds so that the indication shown below appears.



- At the same time the setting is switched to "MONITOR," the audio input source switches to tuner and the video input source switches to VIDEO 1.
- To switch the setting back to "VIDEO 2," once again hold down the **MONITOR** key for two seconds or more.

Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 3 days.

- Power mode.
- Input selector settings.
- Device preset.
- Picture output.
- Speaker ON/OFF
- Volume level.
- BASS, TREBLE, INPUT level.
- Subwoofer ON/OFF.
- Dimmer level.
- Monitor ON/OFF.
- MD/TAPE settings.
- 6CH/2CH input setting.
- Listen mode setting.
- Speaker settings.
- Input mode setting.
- Midnight mode setting.
- Broadcast band.
- Frequency setting.
- Preset stations.
- Tuning mode.

Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

For U.S.A. and Canada

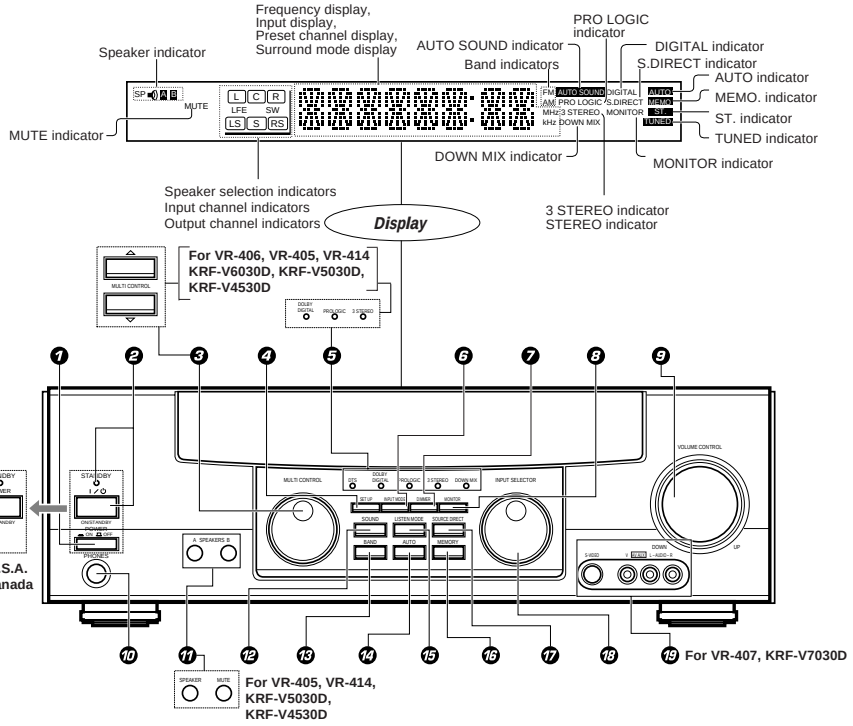
Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

For other countries

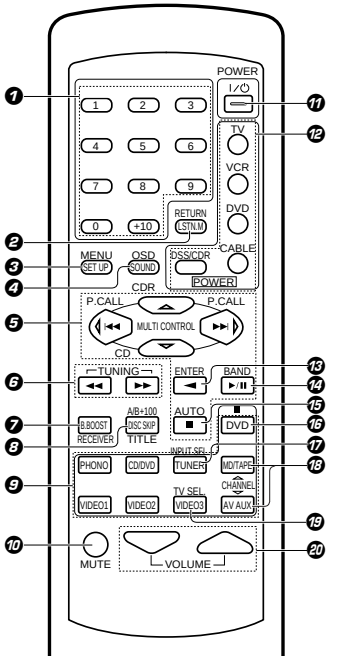
With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

Model vs PCB

MODEL	*ABB*	*POWER SUPPLY*	*POWER AMP*	*PREAMP*	*DISPLAY*
KRF-V4530D	*E4*	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D	*E1*	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D	*T5*	-	X07-3140-51	X08-3010-11	X14-7122-72
KRF-V5030D	*Y5*	X00-3000-20	X07-3142-91	X08-3010-11	X14-7120-22
KRF-V5030D-S	*E3*	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D-S	*I5*	X00-3000-20	X07-3140-21	X08-3010-11	X14-7120-22
KRF-V5030D-S	*M5*	X00-3000-20	X07-3140-21	X08-3010-21	X14-7120-22
KRF-V5030D-S	*X5*	-	X07-3140-71	X08-3010-11	X14-7120-72
KRF-V5030DE	*E2*	-	X07-3142-71	X08-3010-11	X14-7122-72
VR-405	*K5*	-	X07-3140-10	X08-3010-10	X14-7120-11
VR-405	*P5*	-	X07-3140-10	X08-3010-10	X14-7120-11
VR-414	*K4*	-	X07-3140-11	X08-3010-10	X14-7120-11
VR-414	*P4*	-	X07-3140-11	X08-3010-10	X14-7120-11
KRF-V6030D	*E6*	-	X07-3132-72	X08-3010-10	X14-7122-71
KRF-V6030D-S	*I6*	X00-3000-20	X07-3130-22	X08-3010-10	X14-7120-21
KRF-V6030D-S	*M6*	X00-3000-20	X07-3130-22	X08-3010-21	X14-7120-21
KRF-V6030D-S	*X6*	-	X07-3130-72	X08-3010-10	X14-7120-71
KRF-V6030DE	*E7*	-	X07-3132-72	X08-3010-10	X14-7122-71
VR-406	*K6*	-	X07-3130-11	X08-3010-10	X14-7120-10
VR-406	*P6*	-	X07-3130-11	X08-3010-10	X14-7120-10



Remote control unit (RC-R0609) (VR-407/406/KRF-V7030D/V6030D)



There are some cases in which keys (or knobs) that have the same function on the receiver and on the remote control have different names. In the instructions of this manual, if the names of corresponding keys (or knobs) on the receiver and remote control are different, the name of the remote control key is indicated in parentheses.

❶ **POWER key**
(Except for U.S.A. and Canada)
Use to turn the main power ON/OFF.

❷ **POWER key**
(For U.S.A. and Canada)
Use to turn the power ON/OFF.
STANDBY indicator

❷ **ON/STANDBY (I/⏻) key**
(Except for U.S.A. and Canada)
Use to switch the power ON/STANDBY when the POWER is turned ON.
STANDBY indicator

❸ **MULTI CONTROL knob**
(For VR-407/KRF-V7030D)
Used to make a variety of settings.

❸ **MULTI CONTROL keys**
(For VR-406/405/414/KRF-V6030D/V5030D/V4530D)
Used to make a variety of settings.

❹ **SET UP key**
Use to select the surround sound settings.

❺ **Surround indicators**
● **DTS indicator**
(For VR-407/KRF-V7030D)
Lights when the receiver is in the DTS mode.
● **DOLBY DIGITAL indicator**
Lights when the receiver is in the Dolby Digital mode.
● **PROLOGIC indicator**
Lights when the receiver is in the PROLOGIC mode.
● **3 STEREO indicator**
Lights when the receiver is in the 3 STEREO mode.
● **DOWN MIX indicator**
(For VR-407/KRF-V7030D)
Lights when the receiver is in the DOWN MIX mode.

❻ **INPUT MODE key**
Use to switch between the digital and analog inputs.

❼ **DIMMER key**
Use to adjust the brightness of the display.
Use to select the REC MODE.

❽ **MONITOR key**
Use to monitor the source that is connected to the MONITOR jack.

❾ **VOLUME CONTROL knob**

❿ **PHONES jack**
Use for headphone listening.

⓫ **SPEAKERS A/B keys**
(For VR-407/406/KRF-V7030D/V6030D)
Use to turn the A/B speakers ON/OFF.

⓫ **SPEAKER key**
(For VR-405/414/KRF-V5030D/V4530D)
Use to turn the speaker ON/OFF.
MUTE key
(For VR-405/414/KRF-V5030D/V4530D)
Use to temporarily mute the sound.

⓬ **SOUND key**
Use to adjust the sound quality and ambience effects.

⓭ **BAND key**
Use to select the broadcast band.

⓮ **AUTO key**
Use to select the auto tuning mode.

⓯ **LISTEN MODE key**
Use to select the listening mode.

⓰ **MEMORY key**
Use to store radio stations in the preset memory.

⓱ **SOURCE DIRECT key**
Use to pass the source material direct to the amplifier.

⓲ **INPUT SELECTOR knob**
Use to select the input sources.

⓳ **AUX IN S VIDEO/VIDEO/AUDIO L/R jacks**
(For VR-407/KRF-V7030D)

❶ **Numeric keys**
Provide functions identical to those of the original remote control supplied with the component you are controlling.

❷ **LSTN.M key**
Use to select the listening mode.
RETURN key
Use to operate other components.

❸ **SET UP key**
Use to select the surround sound settings.
MENU key
Use to operate other components.

❹ **SOUND key**
Use to adjust the sound quality and ambience effects.
OSD key
Use to operate other components.

❺ **MULTI CONTROL keys**
Used to make a variety of settings.
Use to operate other components.
P.CALL ◁/▷ keys
If tuner is selected as the input source, these keys function as P.CALL keys.
I◀◀/▶▶I keys
If CD or MD is selected as the input source, these keys function as search keys.

❻ **TUNING ◀◀/▶▶ keys**
Use to operate the tuner or selected component.

❼ **B. BOOST key**
Use to select the maximum adjustment setting for the low frequency range.
RECEIVER key
Use to return to the operation of the receiver.

❽ **DISC SKIP key**
If CD is selected as the input source, this key functions as the multi-CD player disc skip key.
A/B key
If TAPE is selected as the input source, this (A and B) of a double cassette deck.
+100 key
Use to select the disc number with the multi-CD player.
TITLE key
Use to operate other components.

❾ **INPUT SELECTOR keys (DVD, PHONO, CD/DVD, TUNER, MD/TAPE, VIDEO1, VIDEO2, VIDEO3, AV AUX)**
Selects the inputs and sets the remote control to operate the component registered at the respective input.

❿ **MUTE key**
Use to temporarily mute the sound.

⓫ **POWER key**
Use to turn the receiver on and off.

⓬ **POWER key (TV, VCR, DVD, DSS/CDR, CABLE)**
Use to turn the other components on and off.

⓭ **ENTER key**
Use to operate other components.

⓮ **◄ key**
If tape is selected as the input source, this key functions as the play key for side B of the cassette (the side facing away from the front of the deck).

⓮ **BAND key**
Use to select the broadcast band.

⓯ **►/II key**
If CD is selected as the input source, this key functions as the play/pause key.
If MD is selected as the input source, this key functions as the play key.

⓯ **AUTO key**
Use to select the auto tuning mode.

⓯ **■ key**
If CD or MD is selected as the input source, this key functions as the stop key.

⓰ **II key**
Use to operate other components.

⓱ **INPUT SEL. key**
Use to operate other components.

⓲ **CHANNEL △/▽ keys**
Use to select the channel.

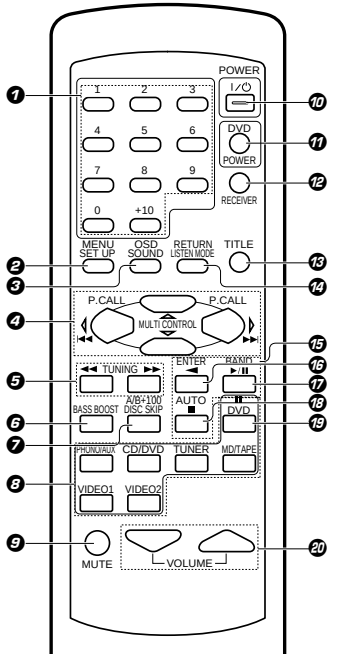
⓳ **TV SEL. key**
Use to operate other components.

⓴ **VOLUME keys**
Use to adjust the receiver volume.

Standby mode

While the standby indicator of the unit is lit, a small amount of current is flowing into the unit's internal circuitry to back up the memory. This condition is referred to as the standby mode of the unit. While the unit is in the standby mode, it can be turned ON from the remote control unit.

Remote control unit (RC-R0509) (VR-405/414/KRF-V5030D/V4530D)



❶ **Numeric keys**
If CD or MD is selected as the input source, these keys function as numeric keys. If tuner is selected as the input source, these keys are used to call up station presets.

❷ **SET UP key**
Use to select the surround sound settings.
MENU key
Use to operate other components.

❸ **SOUND key**
Use to adjust the sound quality and ambience effects.
OSD key
Use to operate other components.

❹ **MULTI CONTROL keys**
Used to make a variety of settings.
P.CALL ◁/▷ keys
If tuner is selected as the input source, these keys function as P.CALL keys.
I◄◄/►►I keys
If CD or MD is selected as the input source, these keys function as search keys.

❺ **TUNING ◄◄/►► keys**
If tuner is selected as the input source, these keys function as tuning keys.

❻ **BASS BOOST key**
Use to select the maximum adjustment setting for the low frequency range.

❼ **DISC SKIP key**
If CD is selected as the input source, this key functions as the multi-CD player disc skip key.
A/B key
If TAPE is selected as the input source, this (A and B) of a double cassette deck.
+100 key
Use to select the disc number with the multi-CD player.

❽ **INPUT SELECTOR keys (DVD, PHONO/AUX, CD/DVD, TUNER, MD/TAPE, VIDEO1, VIDEO2)**
Selects the inputs and sets the remote control to operate the component registered at the respective input.

❾ **MUTE key**
Use to temporarily mute the sound.

❿ **POWER key**
Use to turn the receiver on and off.

⓫ **DVD key**
Used to operate DVD player.
For details, refer to the instruction manual of your DVD player.

⓬ **RECEIVER key**
Use to return to the operation of the receiver.

⓭ **TITLE key**
Use to operate other components.

⓮ **LISTEN MODE key**
Use to select the listening mode.
RETURN key
Use to operate other components.

⓯ **Component operation keys**
Use these keys to operate other components with system control connections to the receiver.
◄ key
If tape is selected as the input source, this key functions as the play key for side B of the cassette (the side facing away from the front of the deck).
►/II key
If CD is selected as the input source, this key functions as the play/pause key.
If MD is selected as the input source, this key functions as the play key.
■ key
If CD or MD is selected as the input source, this key functions as the stop key.

⓰ **ENTER key**
Use to operate other components.

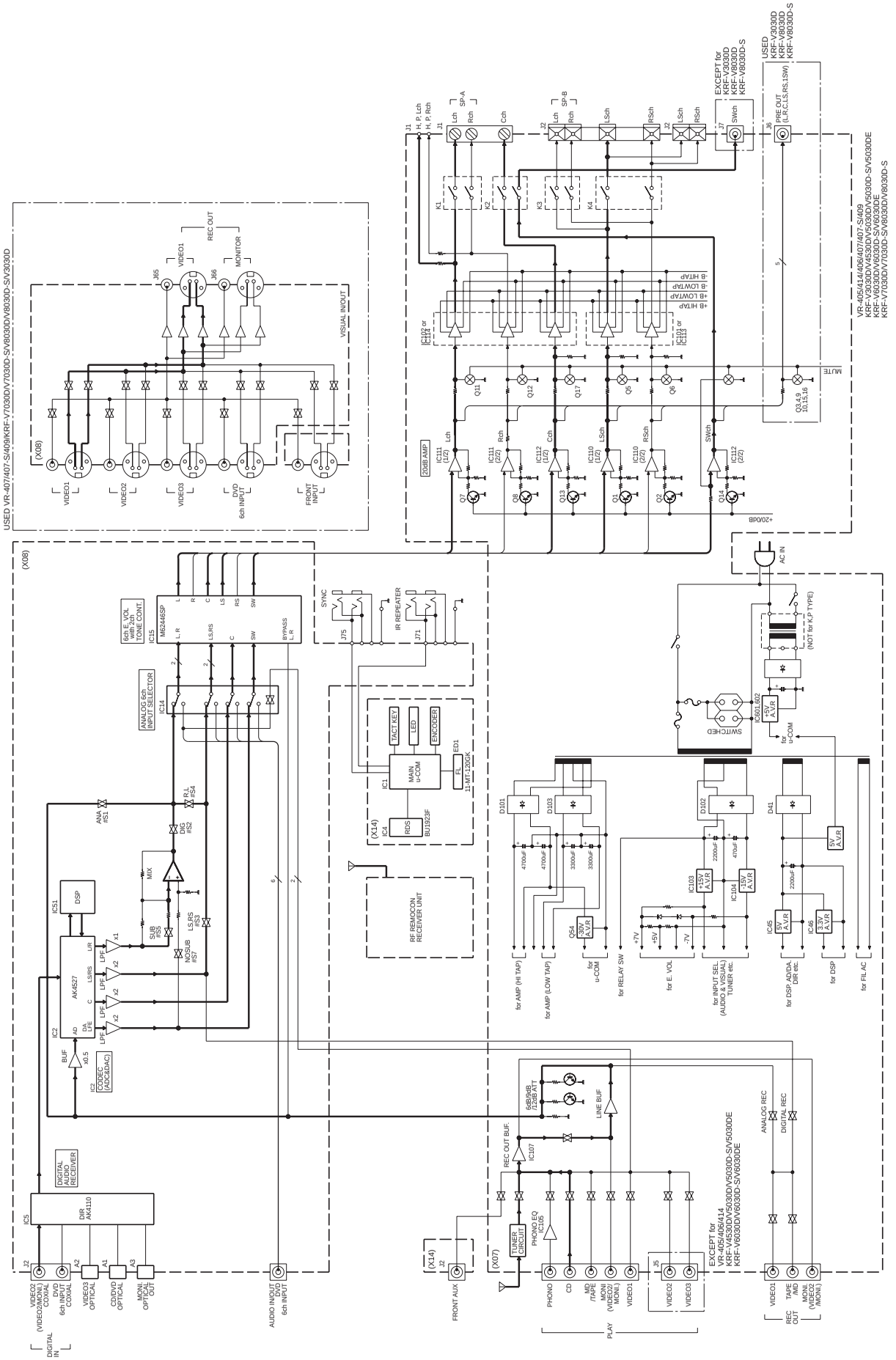
⓱ **BAND key**
If tuner is selected as the input source, this key functions as the band selector key.

⓲ **AUTO key**
If tuner is selected as the input source, this key functions as the AUTO key.

⓳ **II key**
Use to operate other components.

⓴ **VOLUME keys**
Use to adjust the receiver volume.

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Pin description of microprocessor : X14,IC1(MN101C35DRA)

Pin No.	Pin Name	I/O	Description
1	S. DATA	I/O	Serial data signal.
2	S.BUS	I/O	Serial busy signal.
3	SEL. ST1	O	Strobe output to input selector (IC106).
4	SEL/VOL/PLL DT	O	Data output to selector,volume and PLL IC.
5	SEL/VOL/PLL CLK	O	Clock output to selector,volume and PLL IC.
6	SEL. ST2	O	Strobe 2 output to input selector (IC109).
7	PLL. CE	O	PLL chip enable.
8	Vdd (+5v)	-	Power supply.
9	OSC OUT	O	8MHz clock output.
10	OSC IN	I	8MHz clock input.
11	Vss	-	Connected to ground.
12	X IN	-	Connected to ground.
13	X OUT	-	No used.
14	MMCD	-	Connected to ground.
15	Vref-	-	Connected to ground.
16,17	KEY2,KEY1	I	Input terminal of key1 and key2.
18	MODEL TYPE	I	Discrimination port of models.
19	TH. SENS	I	No used.
20	PROTECT	I	Detection port of protection signal 1.
21	PROTECT2	I	Detection port of protection signal 2.
22	S.LEVEL/CH SPACE	I	RDS S level and channel space changeover.
23	PLL DO	I	RDS PLL data signal input.
24	Vref+	-	Reference voltage of AD converter..
25	CE	I	Chip enable.
26	RESET	I	Reset signal input.
27	T. MUTE	O	Muting signal output to tuner.
28	RF ST	O	CE signal output of RF receiver IC.
29	RF DT	O	Data signal output of RF receiver IC.
30	RF CLK	O	Clock signal output of RF receiver IC.
31	VOL.ST	O	Latch output of electric volume.
32	DSP INTREQ	I/O	Detection port of DSP INTREQ.
33	DTS DET	I	Detection port of DTS data.
34	REMOCON	I	Remote control signal input.
35	DIR ERR	I	Detection port of DIR error signal.
36	DZF	I	Detection port of CODEC zero input.
37	RDS.CLK	I	RDS clock input.
38	RDS.DAT/CE2	I	RDS data input./u-COM chip enable 2.
39	DSP/DIR/CORDEC CDIN	O	Serial data output.
40	DSP/DIR/CDOUT	I	Serial data input.
41	DSP/DIR/CORDEC CCLK	O	Clock output to IC2, IC5 and IC51on X08.
42	DSP CS	O	DSP chip select.
43	DSP PD	O	DSP power down.
44	DIR CODEC CS	O	CODEC chip select.
45	DIR CODEC PD	O	DIR CODEC power down.
46	NO USE	-	No used.
47-57	1G-11G	O	FL grid control(1G-11G).
58-74	P1-P17	O	FL segment control(P1-P17).
75	PACK CONT.	O	Power pack control.
76	LIMMITER	O	Control port of A class power supply.
77	REAR RE	O	Relay control terminal of surround speaker.
78	CENTER RE	O	Relay control terminal of center speaker.
79	FB RE	O	Relay control terminal of front B speaker.
80	FA RE	O	Relay control terminal of front A speaker.

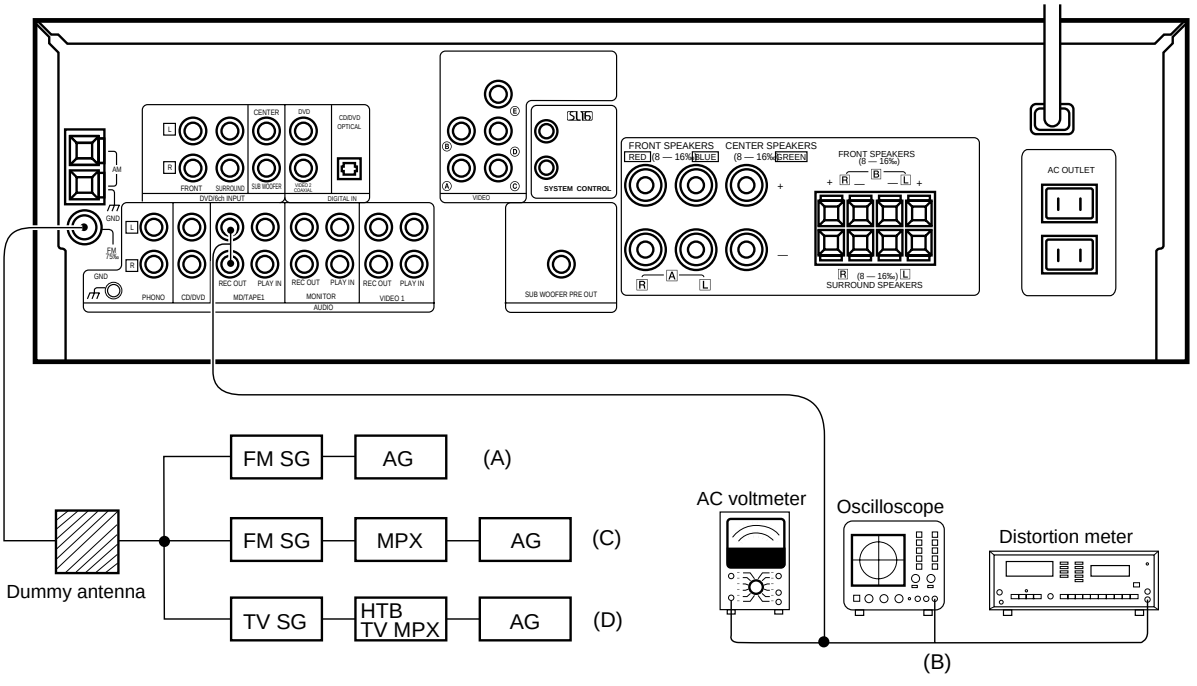
CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
81	POWER RE	O	Power relay control.
82	CS5. 1(DOWN MIX)LED	O	Control terminal of CS5.1(DOWN MIX) LED.
83	3 STEREO LED	O	Control terminal of 3 STEREO LED.
84	DTS LED	O	Control terminal of DTS LED.
85	DOLBY DIGITAL LED	O	Control terminal of DOLBY DIGITAL LED.
86	PROLOGIC LED	O	Control terminal of PROLOGIC LED.
87	STANDBY LED	O	Control terminal of STANDBY LED.
88	PRE OUT MUTE	O	Muting control terminal of pre out.
89	20dB ATT	O	20dB attenuation(volume) control terminal.
90	A.MUTE	O	Audio muting signal output.
91	ABOOT	O	EPROM CS.
92	MULTI. ENC CW	I	Multi cont. encoder signal input(clockwise).
93	MULTI. ENC CCW	I	Multi cont. encoder signal input(counterclockwise).
94	SEL. ENC CW	I	Selector encoder signal input(clockwise).
95	SEL. ENC CCW	I	Selector encoder signal input(counterclockwise).
96	VOL. ENC CW	I	Volume encoder signal input(clockwise).
97	VOL. ENC CCW	I	Volume encoder signal input(counterclockwise).
98	STEREO	I	Stereo (tuner) signal input.
99	SD	I	Tuner (SD)detector input.
100	Vpp(-30V)	-	FL power supply(-35V).

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION : EXCEPT E,T type		**SELECTOR : FM**					
1	DISCRIMINATOR (K,P only)	(A) 98.0MHz 1kHz, ±75kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	98.0MHz	L4 (X07)	0V	
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±75kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
FM SECTION : E,T type only		**SELECTOR : FM** ※**Adjust NO.1 and NO.2 repeat.**					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	MONO 98.0MHz	L4 (X07)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X07)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (FRONT END : A1)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	

SYSTEM CONNECTIONS

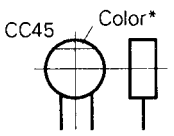


PARTS DESCRIPTIONS

CAPACITORS

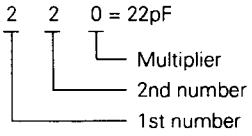
CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001µF
103 = 0.01µF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10µF -10 ~ +50 Less than 4.7µF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

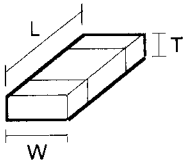
Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

Dimension



• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension (Chip resistor)

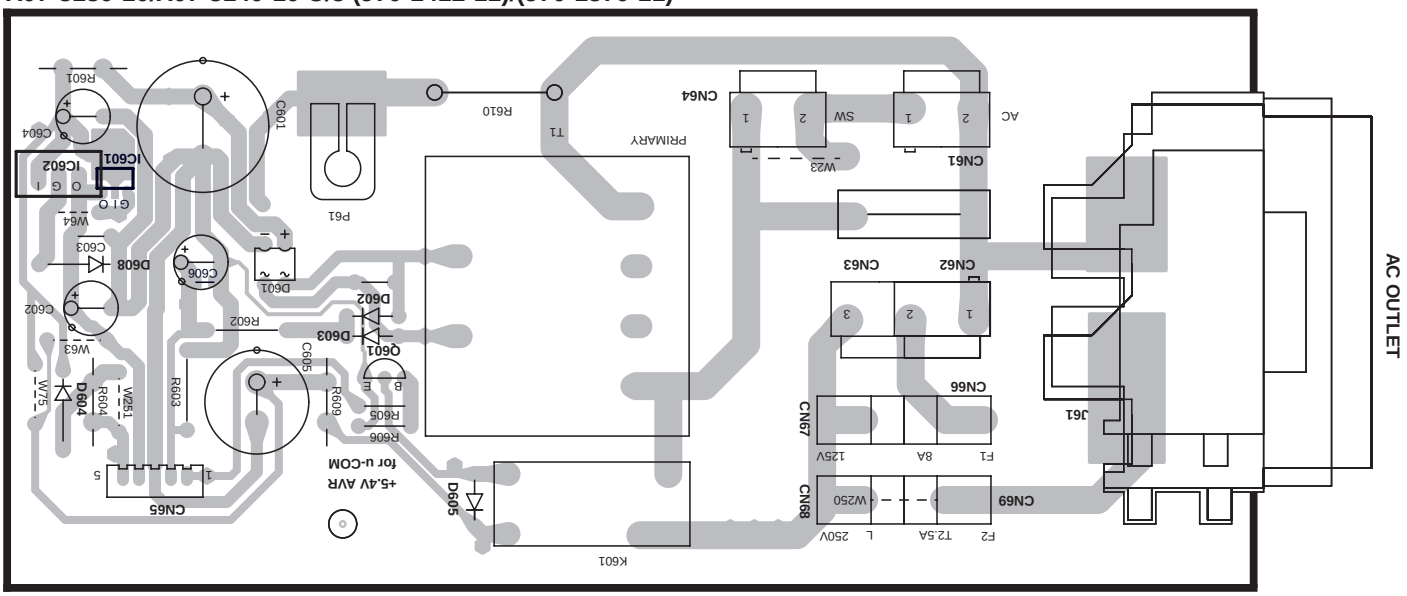
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

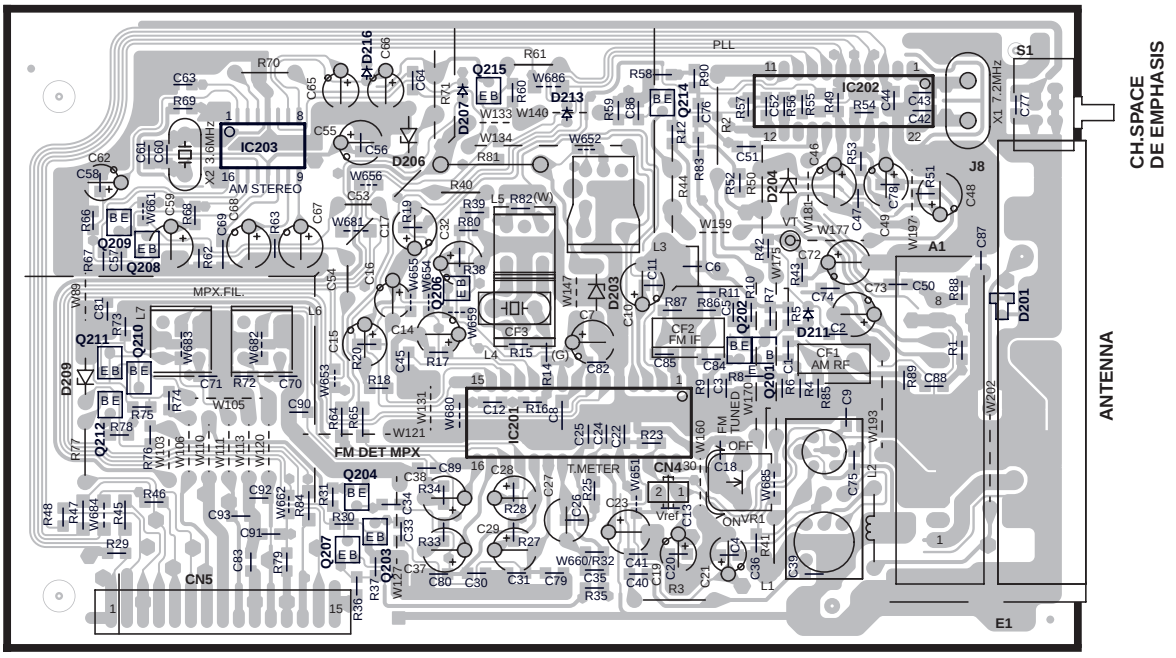
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD (Component side view)

X07-3130-10/X07-3140-10 C/3 (J70-1412-11)/(J70-1370-11)

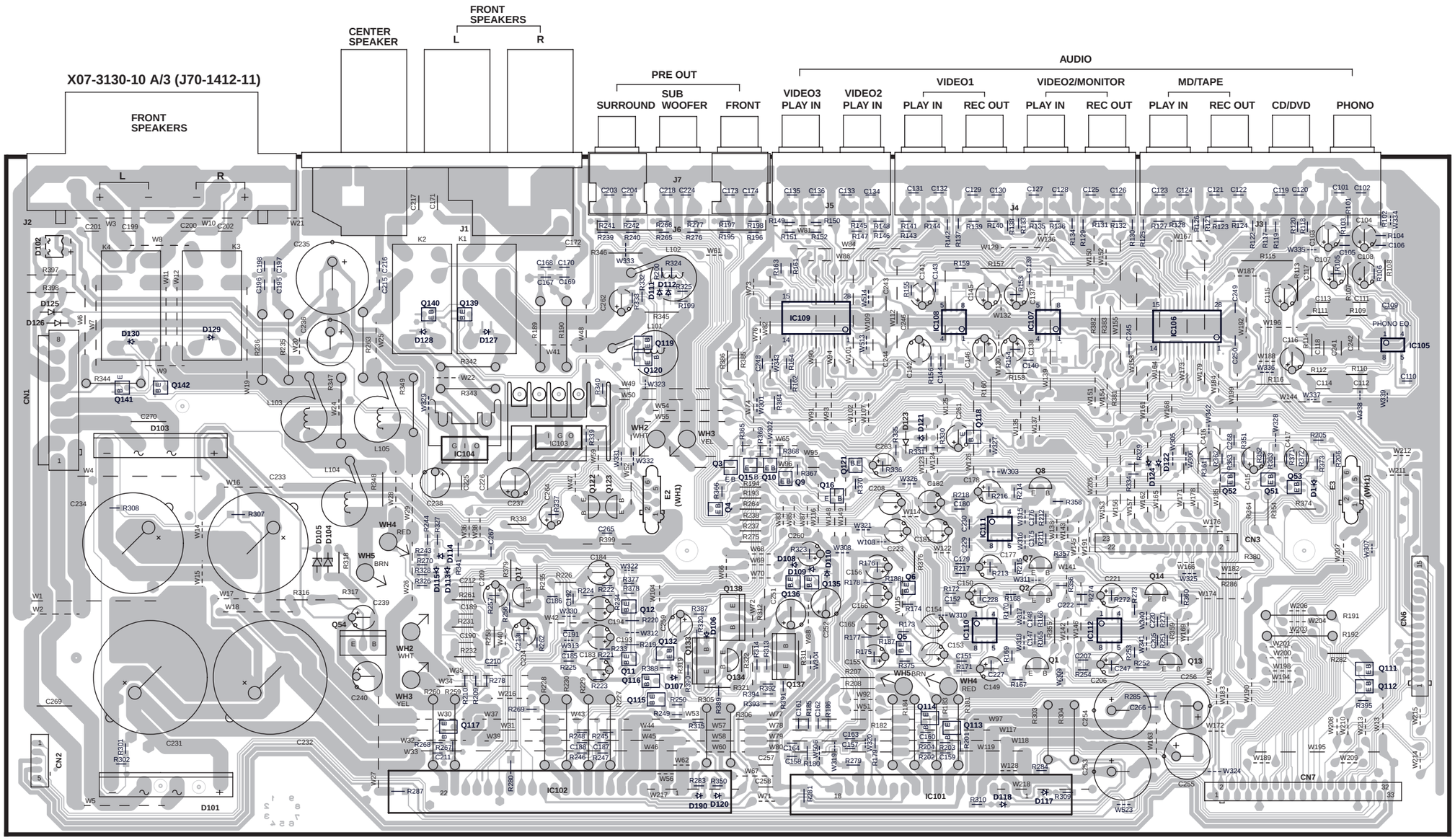


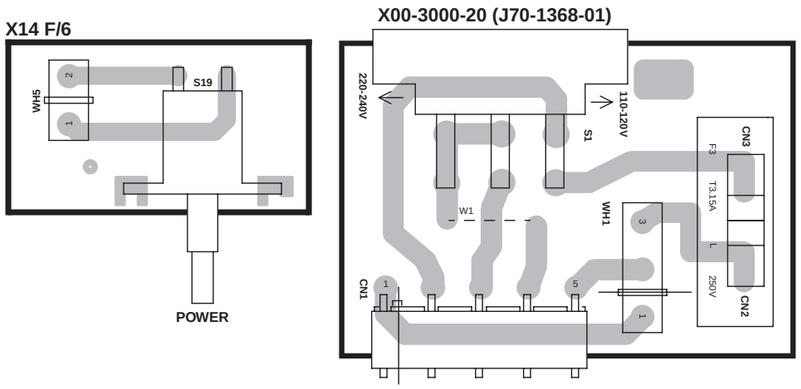
X07 B/3



Refer to the schematic diagram for the value of resistors and capacitors.

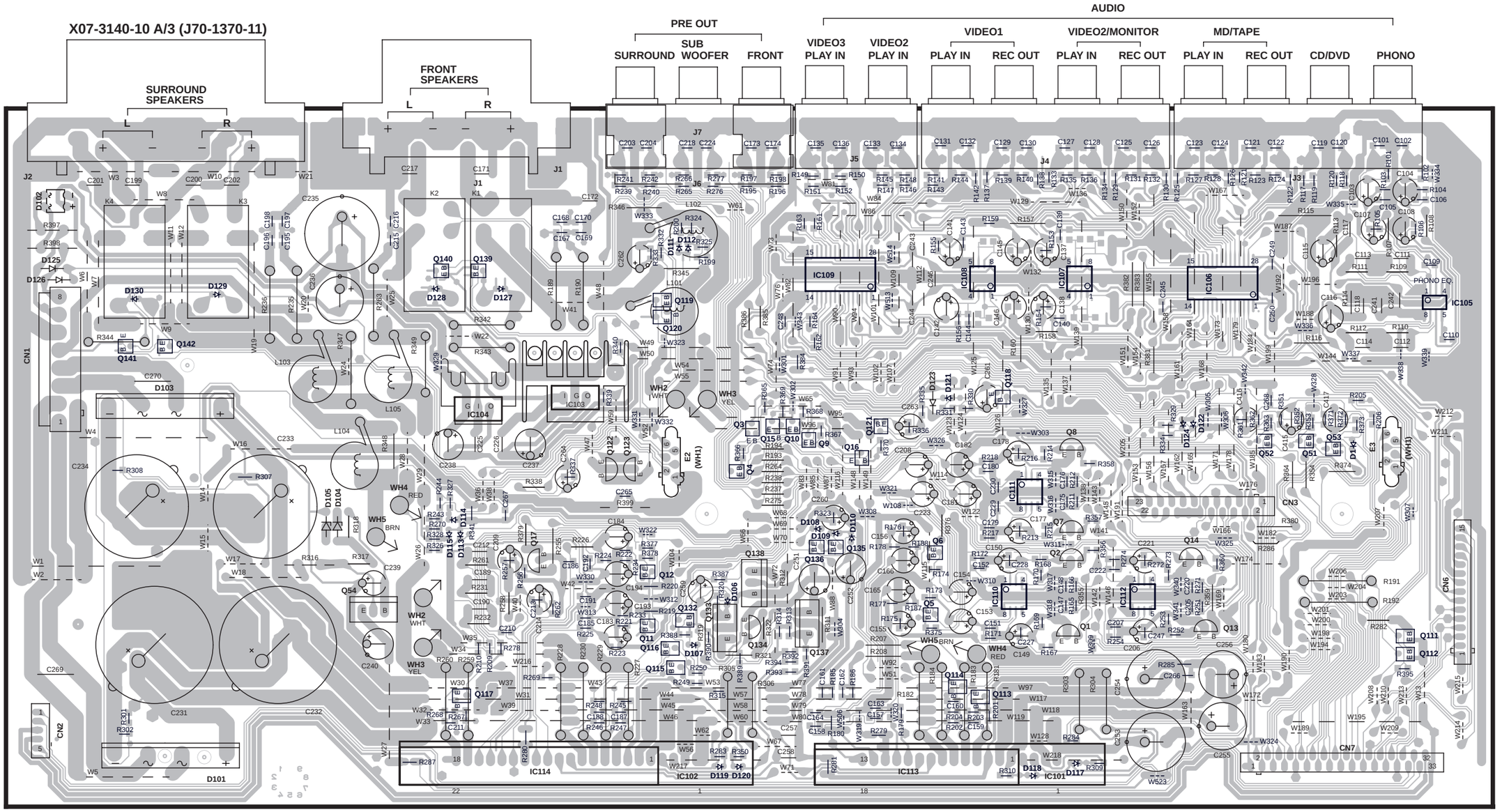
PC BOARD (Component side view)



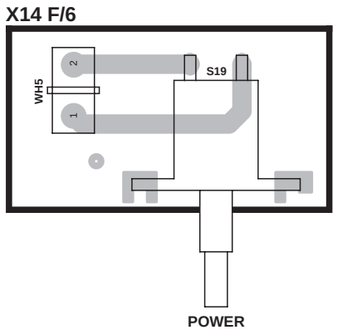


Refer to the schematic diagram for the value of resistors and capacitors.

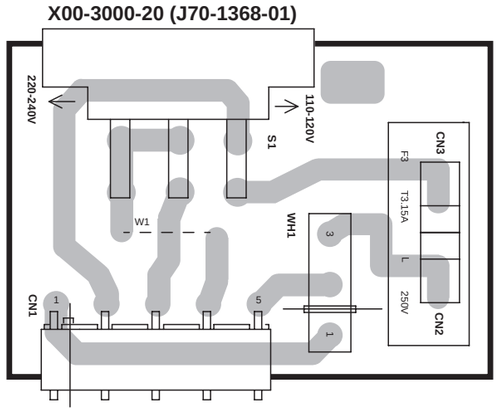
PC BOARD (Component side view)



X14 F/6



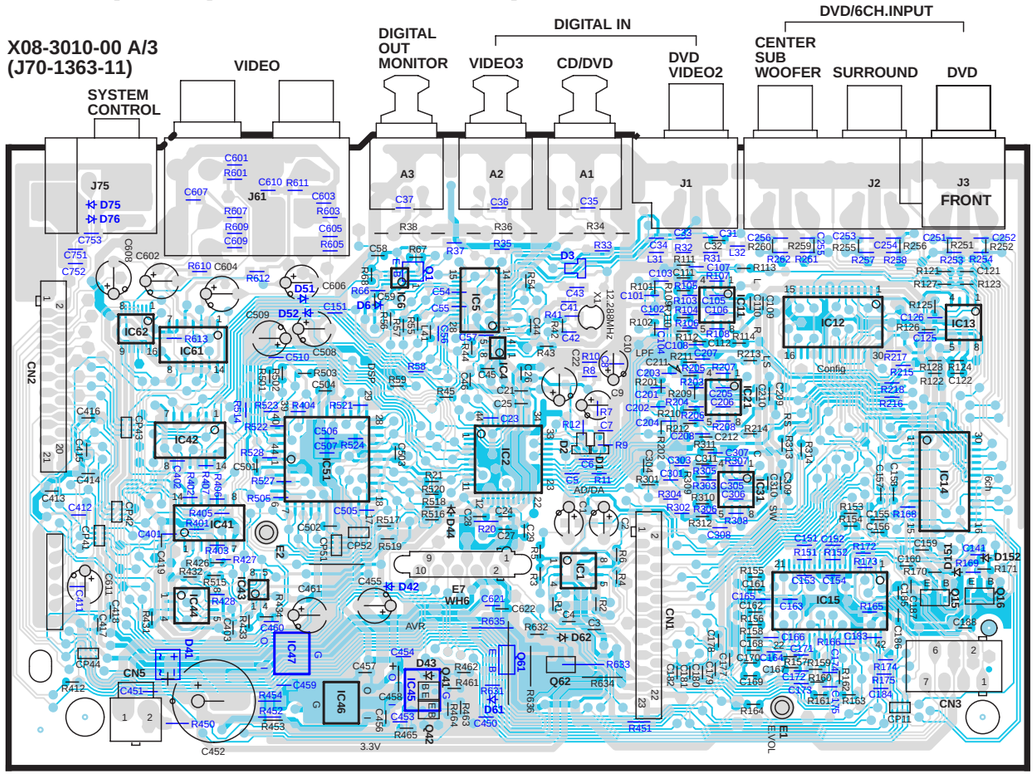
X00-3000-20 (J70-1368-01)



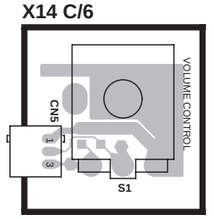
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

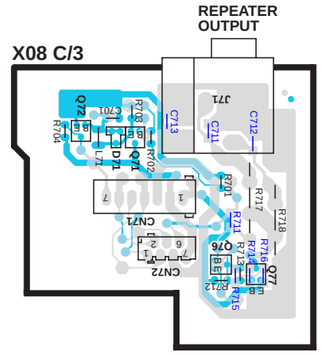
X08-3010-00 A/3
(J70-1363-11)



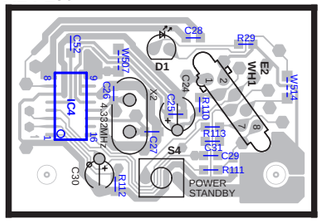
X14 C/6



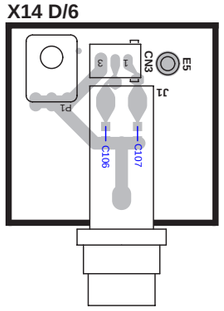
X08 C/3



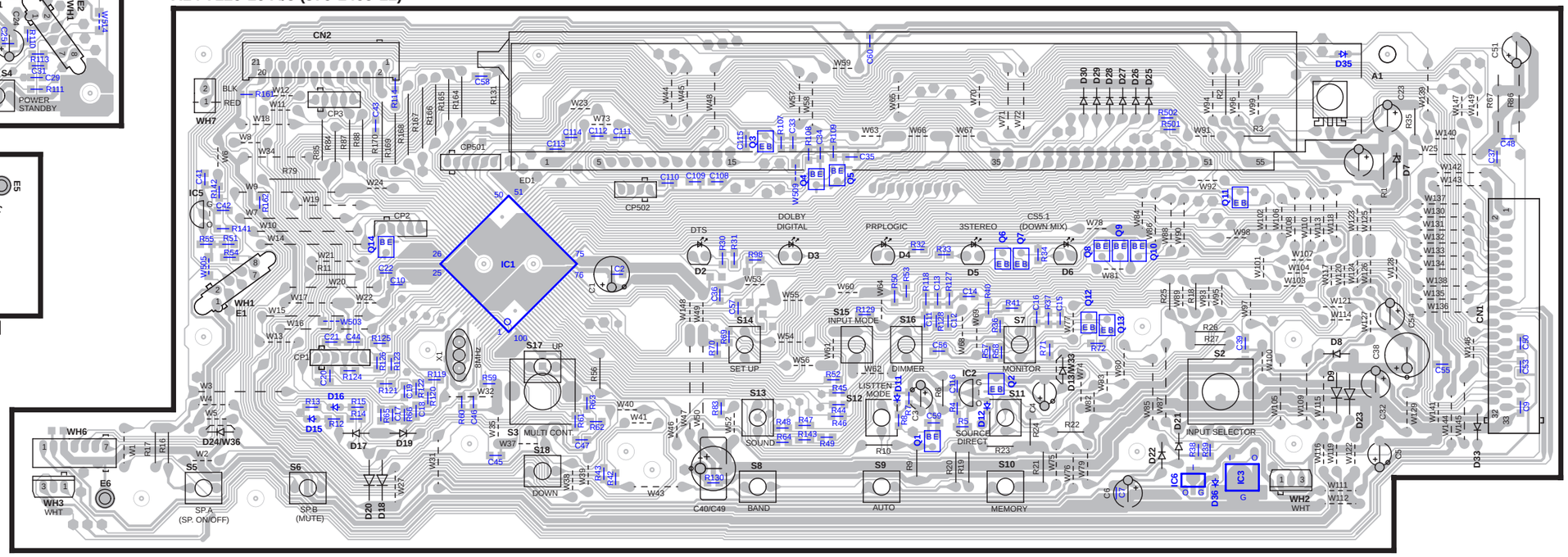
X14 B/6



X14 D/6

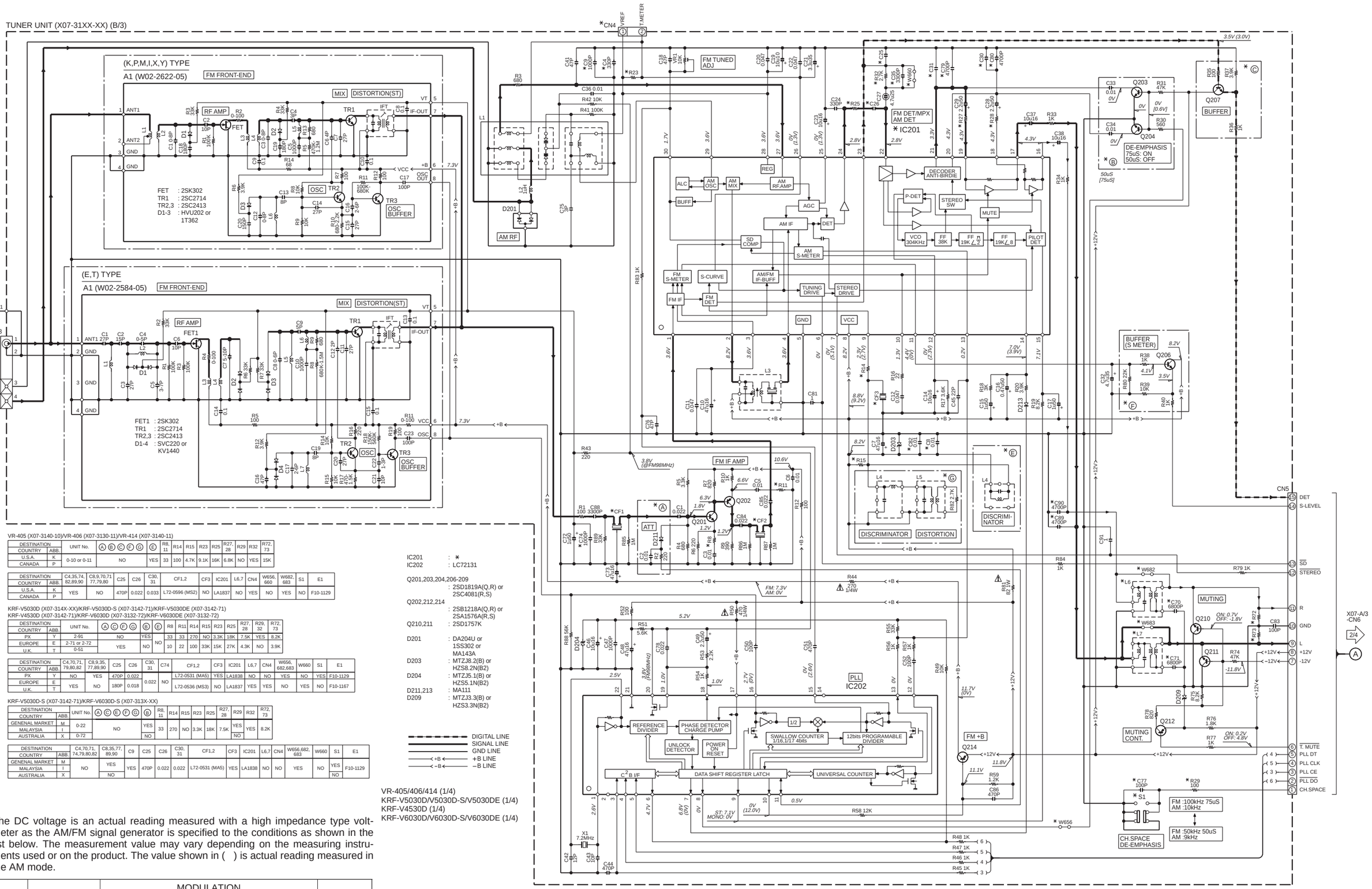


X14-7120-10 A/6 (J70-1409-11)



Refer to the schematic diagram for the value of resistors and capacitors.

TUNER UNIT (X07-31XX-XX) (B/3)



VR-405 (X07-3140-10)/VR-406 (X07-3130-11)/VR-414 (X07-3140-11)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓕ Ⓖ	Ⓔ	R8, 11	R14	R15	R23	R25	R27, 28	R29	R32	R72, 73
COUNTRY	ABB.												
U.S.A.	K	0-10 or 0-11	NO	YES	33	100	4.7K	9.1K	16K	6.8K	NO	YES	15K
CANADA	P												

DESTINATION		C4,35,74, 82,89,90	C8,9,70,71 77,79,80	C25	C26	C30, 31	CF1,2	CF3	IC201	L6,7	CN4	W656, 660	W682, 683	S1	E1
COUNTRY	ABB.														
U.S.A.	K	YES	NO	470P	0.022	0.033	L72-0596 (MS2)	NO	LA1837	NO	YES	NO	YES	NO	F10-1129
CANADA	P														

KRF-V5030D (X07-314X-XX)/KRF-V5030D-S (X07-3142-71)/KRF-V5030DE (X07-3142-71)
KRF-V4530D (X07-3142-71)/KRF-V6030D (X07-3132-72)/KRF-V6030DE (X07-3132-72)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ Ⓖ	Ⓑ	Ⓔ	R8	R11	R14	R15	R23	R25	R27, 28	R29, 32	R72, 73
COUNTRY	ABB.													
PX	Y	2-91	NO	YES	NO	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K
EUROPE	E	2-71 or 2-72	YES	NO		10	22	100	33K	15K	27K	4.3K	NO	3.9K
U.K.	T	0-51												

DESTINATION		C4,70,71, 79,80,82	C8,9,35, 77,89,90	C25	C26	C30, 31	C74	CF1,2	CF3	IC201	L6,7	CN4	W656, 682,683	W660	S1	E1
COUNTRY	ABB.															
PX	Y	NO	YES	470P	0.022	0.022	NO	L72-0531 (MA5)	YES	LA1838	NO	NO	YES	NO	YES	F10-1129
EUROPE	E	YES	NO	180P	0.018			L72-0536 (MS3)	NO	LA1837	YES	YES	NO	YES	NO	F10-1167
U.K.	T															

KRF-V5030D-S (X07-3142-71)/KRF-V6030D-S (X07-313X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓔ Ⓕ Ⓖ	Ⓑ	R8, 11	R14	R15	R23	R25	R27, 28	R29	R32	R72, 73
COUNTRY	ABB.												
GENENAL MARKET	M	0-22	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K
MALAYSIA	I			NO							NO		
AUSTRALIA	X	0-72											

DESTINATION		C4,70,71, 74,79,80,82	C8,35,77, 89,90	C9	C25	C26	C30, 31	CF1,2	CF3	IC201	L6,7	CN4	W656,682, 683	W660	S1	E1
COUNTRY	ABB.															
GENENAL MARKET	M	NO	YES	YES	470P	0.022	0.022	L72-0531 (MA5)	YES	LA1838	NO	NO	YES	NO	YES	F10-1129
MALAYSIA	I		NO												NO	
AUSTRALIA	X															

IC201 : ✳
IC202 : LC72131

Q201,203,204,206-209 : 2SD1819A(Q,R) or 2SC4081(R,S)

Q202,212,214 : 2SB1218A(Q,R) or 2SA1576A(R,S)

Q210,211 : 2SD1757K

D201 : DA204U or 1SS302 or MA143A

D203 : MTZJ8.2(B) or HZS8.2N(B2)

D204 : MTZJ5.1(B) or HZS5.1N(B2)

D211,213 : MA111

D209 : MTZJ3.3(B) or HZS3.3N(B2)

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

VR-405/406/414 (1/4)
KRF-V5030D/V5030D-S/V5030DE (1/4)
KRF-V4530D (1/4)
KRF-V6030D/V6030D-S/V6030DE (1/4)

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y05-4050-10

KRF-V4530D/V5030D/V6030D/VR-405/406/414

KENWOOD

(X07-31XX-XX) (A/3)

(AUDIO)
MM: 2.5V
LINE: 200mV
Lch 1 / Rch 2 PHONO
Lch 3 / Rch 4 CD
Lch 5 / Rch 6 MD/TAPE REC
Lch 7 / Rch 8 MD/TAPE PLAY
Lch 1 / Rch 2 MONITOR REC
Lch 3 / Rch 4 MONITOR PLAY
Lch 5 / Rch 6 VIDEO1 OUT
Lch 7 / Rch 8 VIDEO1 IN

PHONO EQ AMP
IC105(1/2)
IC105(2/2)
REC OUT BUFFER
IC107(1/2)
IC107(2/2)
LINE BUFFER
IC108(1/2)
IC108(2/2)

IC106 (BOTTOM VIEW)
INPUT/REC OUT SELECTOR
TUNER PHONO CD TAPE/MD COM TAPE/MD REC OUT VIDEO1 REC OUT AV/ALOG L/R DIGITAL L/R REC OUT

IC109 (BOTTOM VIEW)
INPUT/ATT SELECTOR
VIDEO1 VIDEO2 VIDEO3 FRONT AUX COM COM MONITOR LINE BUF ATT1 ATT2 ATT OFF REC OUT

IC110-112 20dB AMP
IC110(1/2)
IC110(2/2)
IC1,2,7,8,13,14 20dB ATT
IC111(1/2)
IC111(2/2)
IC112(1/2)
IC112(2/2)
MUTING (MAIN OUT) Q5,6, 11,12,17
20dB ATT CONT. Q51
PRE OUT CONT. Q52 Q53

IC101,113 POWER AMP (LS,RSch)
IC113
IC101
+VH -VH SUB LS OUT RE/CH1 RE/CH2 RS OUT +PRE +PRE LS IN NF/CH1 BIAS NF/CH2 RS IN
+VH +VL +REF -REF

+B AVR
-B AVR
PACK CONT.

CN3 M VDD M GND +VDD -VSS A GND R RS SW C LS L GND R AUX GND L AUX GND L REC L DVD LT GND RT R DVD R REC
CN6 DET S.LEVEL SD STEREO Rch GND Lch +12V -12V T.MUTE PLL DATA PLL CLK PLL CE PLL DO CH SPACE
CN2 XGB+B +5.0V D GND F.OFF POWER RE
CN7 D GND 5.0V -30V F.OFF POWER RE SD STEREO DET OUT T.MUTE PLL CE S.LEVEL/CH.SPACE PLL DO SEL./PLL DT SEL./PLL CK SEL ST2 SEL ST1 H.P L H.P R F.OFF2
A.MUTE 20dB ATT PRE OUT MUTE F.A.RE F.B.RE CENTER RE REAR RE LIMITER PACK CONT THERMAL SENS

X07-B/3 -CN5 1/4

(X07-31XX-XX) (A/3)

IC102,114 POWER AMP (FL,FR,Cch)

IC114 ⚠

IC102 ⚠

PROTECTION 1

PROTECTION 2

-30V AVR

+12V AVR

-12V AVR

IC103 ⚠

IC104 ⚠

POWER TRANSFORMER

VR-405(K,P)
VR-406(K,P)
KRF-V4530D(E)
KRF-V5030D(E,T)
KRF-V5030DE(E2)
KRF-V5030D-S(X,E)
KRF-V6030D(E)
KRF-V6030DE(E2)
KRF-V6030D-S(X)

POWER TRANSFORMER

VR-414(K,P)

SP.A ON/OFF SW

Cch/SW ON/OFF SW

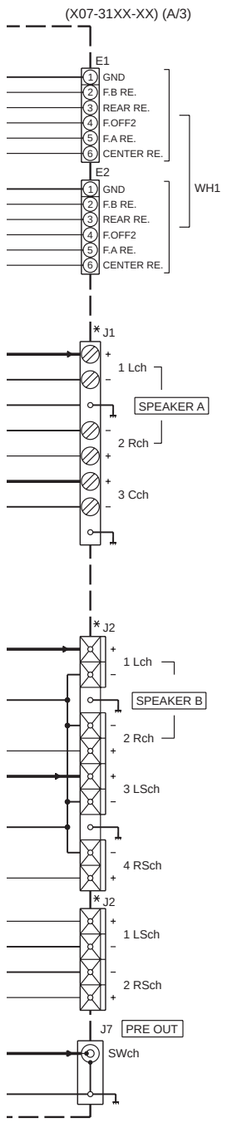
SP.B ON/OFF SW

LS/RSch ON/OFF SW

(X07-) (C/3)

IC602 ⚠

IC601 ⚠



(X07-) (A/3)

VR-406 (X07-3130-11)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C101, 102	C103,104,199, 202,255,256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102,284	R115, 116	R187,188, 233,234,262	R203,204,247, 248,268	R279, 280	R322	R324, 325	TH1	W56,128,334, 335,337	W339
COUNTRY	ABB.																															
U.S.A.	K	0-11		YES		39P	YES	4700u75	3300u42	NO	D5SBA20F03	UDZ8.2B	UDZ15B	UDZ16B	NO	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	100	1.8K	9.1K	33K	18K	75K	NO	NO	YES
CANADA	P																															

KRF-V6030D/V6030DE (X07-3132-72)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C101, 102	C103,104,199, 202,255,256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188,233, 234,262	R203,204,247, 248,268	R279, 280	R284	R322	R324, 325	TH1	W56,128,334, 335,337	W339
COUNTRY	ABB.																																
EUROPE	E	2-72		YES		39P	YES	4700u63	3300u35	NO	RBV-602LFA	UDZ6.2B	UDZ10B	UDZ13B	NO	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	100	2.4K	9.1K	33K	NO	18K	75K	YES	NO	YES

KRF-V6030D-S (X07-313X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C101, 102	C103,104,199, 202,255,256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188, 233,234,262	R203,204,247, 248,268	R279, 280	R284	R322	R324, 325	TH1	W56,128,334, 335,337	W339
COUNTRY	ABB.																																
GENERAL MARKET	M	0-22		YES		39P	YES	4700u75	3300u42	NO	RBV-602LFA	UDZ8.2B	UDZ15B	UDZ16B	YES	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	100	1.8K	9.1K	33K	NO	18K	75K	YES	NO	YES
MALAYSIA	I										D5SBA20F03				NO																		
AUSTRALIA	X	0-72																															

VR-405 (X07-3140-10)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C101, 102	C103,104, 199,202,269	C231, 232	C233, 234	C255, 256	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188, 233,234,262	R203,204,247, 248,268	R279, 280	R284	R322	R324, 325	TH1	W56,128,334, 335,337	W339
COUNTRY	ABB.																																
U.S.A.	K	0-10	NO	YES		220P	NO	4700u75	3300u42	YES	D5SBA20F03	UDZ6.8B	UDZ16B	UDZ13B	NO	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	NO	1K	2.2K	11K	33K	YES	10K	75K	NO	YES	NO
CANADA	P																																

VR-414 (X07-3140-11)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C101, 102	C103,104,199,202, 233,234,255,256	C231, 232	C269	D103	D108	D109,110	D125, 126,129	IC101,102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188, 233,234,262	R203,204,247, 248,268	R279,280, 322	R284	R324, 325	TH1	W56,128,334, 335,337	W339
COUNTRY	ABB.																											
U.S.A.	K	0-11		NO		220P	NO	4700u63	YES	NO	UDZ3.3B	UDZ13B	NO	NO	YES	LEVER	4P	NO	NO	NO	1K	2.7K	15K	10K	YES	200K	NO	YES	NO
CANADA	P																											

KRF-V5030D-S (X07-314X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C101, 102	C103,104, 255,256	C199, 202,269	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188,233, 234,262	R203,204,247, 248,268	R279, 280	R284	R322	R324, 325	TH1	W56,128, 339	W334, 335,337
COUNTRY	ABB.																																
GENERAL MARKET	M	0-21		YES		39P	YES	NO	4700u75	3300u42	RBV-602LFA	UDZ6.8B	UDZ16B	UDZ13B	YES	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	YES	100	2.2K	11K	33K	NO	10K	75K	YES	YES	NO
MALAYSIA	I										D5SBA20F03				NO																		
AUSTRALIA	X	0-71																															

KRF-V5030D (X07-314X-XX)/KRF-V4530D/V5030DE/V5030D-S (X07-3142-71)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C101, 102	C103,104, 255,256	C199, 202,269	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188,233, 234,262	R203,204,247, 248,268	R279, 280	R284	R322	R324, 325	TH1	W56,128, 339	W334, 335,337
COUNTRY	ABB.																																
PX	Y	2-91							4700u75	3300u42	D5SBA20F03	UDZ6.8B	UDZ16B	UDZ13B	YES											2.2K					75K			
EUROPE	E	2-71		YES		39P	YES	NO	4700u63	3300u35	RBV-602LFA	UDZ5.6B	UDZ11B	UDZ10B	NO	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	YES	100	2.7K	11K	33K	NO	10K	100K	YES	YES	NO
U.K.	T	0-51																															

(X07-) (C/3)

VR-406 (X07-3130-11)

DESTINATION		UNIT No.	C605	C606	CN62	CN63,64, 68,69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23,75, 250	W63, 251
COUNTRY	ABB.																				
U.S.A.	K	0-11	NO	0.1	YES	NO	1SS133 or HSS104A	F50-0077 8A	NO	YES	NO	E03-0148	S76-0099	YES	30K 1/4W	10 1/4W	27 1/4W	YES	L07-2758 or L07-2761	YES	NO
CANADA	P																				

KRF-V6030D/V6030DE (X07-3132-72)

DESTINATION		UNIT No.	C605	C606	CN62,64, 68,69	CN63	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23,63, 250,251	W75
COUNTRY	ABB.																				
EUROPE	E	2-72	NO	0.1	YES	NO	RB721Q	F05-3121 T3.15AL	F05-2525 T2.5AL	NO	YES	E03-0149	S76-0107	NO	150K 1/4W	39 1/4W	150 1/4W	NO	L07-2758 or L07-2761	NO	YES

KRF-V6030D-S (X07-313X-XX)

DESTINATION		UNIT No.	C605	C606	CN62	CN63	CN64	CN68, 69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23	W63, W251	W75	W250
COUNTRY	ABB.																								
GENERAL MARKET	M	0-22	YES	0.068	NO	YES	YES	NO	RB721Q	F05-3121 T3.15AL	NO	NO	YES	E03-0149	S76-0107	NO	20K 1/4W	NO	2.2 1/4W	NO	L07-2805	NO	YES	NO	YES
MALAYSIA	I													E03-0325			180K 1/4W	39 1/4W	180 1/4W		L07-2758 or L07-2761		NO	YES	
AUSTRALIA	X	0-72	NO	0.1	YES	NO																			

VR-405 (X07-3140-10)

DESTINATION		UNIT No.	C605	C606	CN62	CN63,64, 68,69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23,75, 250	W63, 251
COUNTRY	ABB.																				
U.S.A.	K	0-10	NO	0.1	YES	NO	1SS133 or HSS104A	F50-0077 8A	NO	YES	NO	E03-0148	S76-0099	YES	30K 1/4W	10 1/4W	27 1/4W	YES	L07-2758 or L07-2761	YES	NO
CANADA	P																				

VR-414 (X07-3140-11)

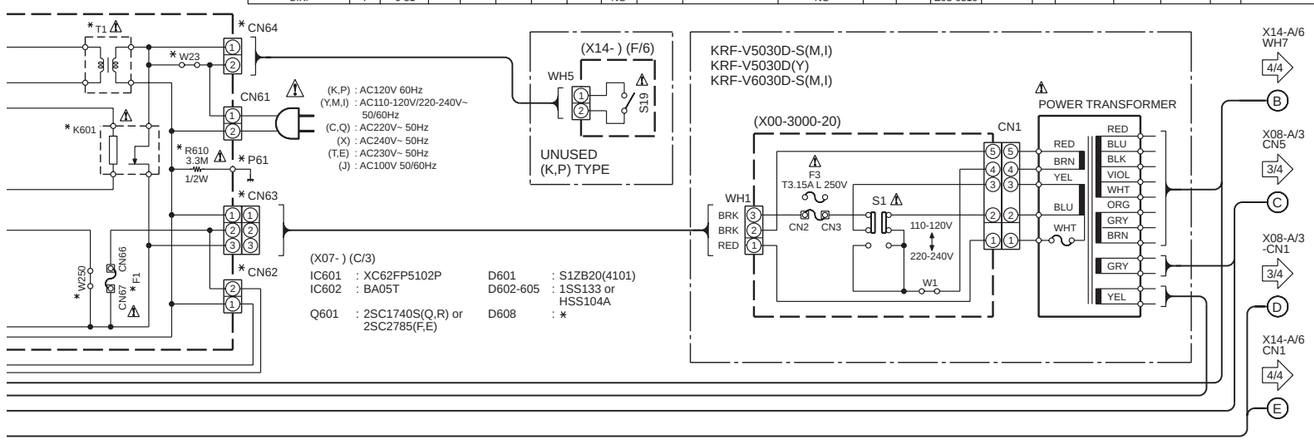
DESTINATION		UNIT No.	C605	C606	CN62	CN63,64, 68,69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23,75, 250	W63, 251
COUNTRY	ABB.																				
U.S.A.	K	0-11	NO	0.1	YES	NO	1SS133 or HSS104A	F50-0076 6.3A	NO	YES	NO	E03-0148	S76-0099	YES	30K 1/4W	10 1/4W	27 1/4W	YES	L07-2758 or L07-2761	YES	NO
CANADA	P																				

KRF-V5030D-S (X07-314X-XX)

DESTINATION		UNIT No.	C605	C606	CN62	CN63	CN64	CN68, 69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23	W63, W251	W75	W250
COUNTRY	ABB.																								
GENERAL MARKET	M	0-21	YES	0.068	NO	YES	YES	NO	RB721Q	F05-2525 T2.5AL	NO	NO	YES	E03-0149	S76-0099	NO	20K 1/4W	NO	2.2 1/4W	NO	L07-2805	NO	YES	NO	YES
MALAYSIA	I													E03-0325			180K 1/4W	39 1/4W	180 1/4W		L07-2758 or L07-2761		NO	YES	
AUSTRALIA	X	0-71	NO	0.1	YES	NO																			

KRF-V5030DV4530D/V5030DE/V5030D-S (X07-314X-XX)

DESTINATION		UNIT No.	C605	C606	CN62	CN63	CN64	CN68, 69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23	W63, 251	W75	W250
COUNTRY	ABB.																								
PX	Y	2-91	YES	0.068	NO	YES	YES	NO	RB721Q	F05-2525 T2.5AL	NO	NO	YES	E03-0148	S76-0099	NO	20K 1/4W	NO	2.2 1/4W	NO	L07-2805	NO	YES	NO	YES
EUROPE	E	2-71	NO	0.1	YES	NO		YES		F05-3121 T3.15AL	F05-2525 T2.5AL	NO	YES	E03-0149	S76-0099	NO	150K 1/4W	39 1/4W	150 1/4W	NO	L07-2758 or L07-2761	NO	NO	YES	NO
U.K.	T	0-51						NO			NO			E03-0310											



(X07-) (C/3)

IC601 : XC62FP5102P
IC602 : BA05T

Q601 : 2SC1740S(Q,R) or 2SC2785(F,E)

D601 : S1ZB20(4101)
D602-605 : 1SS133 or HSS104A
D608 : ∗

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

(X07-) (A/3)

IC101 : ∗
IC102 : ∗
IC103 : KIA7812API
IC104 : KIA7912PI
IC105 : NJM4580ED
IC106,109 : NJU7313AM
IC107,108,110-12 : NJM4565M
IC113 : STK442-090
IC114 : STK443-090

Q1,2,7,8,13,14 : 2SC2785(F,E) or 2SC1740S(Q,R)
Q5,6,11,12 : 2SD2351
Q17 : 2SC2878(B)
Q51-53,118,121,135 : 2SA1576A(R,S) or 2SB1218A(Q,R)
Q54,138 : 2SB1640
Q113-117,119,120,132 : 2SC3906K
Q122,123,134 : 2SC1845(F,E)
Q133 : 2SB1566
Q136 : UN5219
Q137 : 2SD2395
Q139-142 : DTC123JUA

D1 : UDZ3.3B
D101 : D5SBA20F03
D102 : S1ZB20(4101)
D103 : ∗
D104 : MTZJ16(B) or HZS16N(B2)
D105 : MTZJ15(B) or HZS15N(B2)
D106,107,111-115,121,127-130 : MA111
D108 : ∗
D109 : ∗
D110 : ∗
D117-120 : UDZ15B
D122,124 : UDZ3.9B
D123,125,126 : 1SS133 or HSS104A

VR-405/406/414 (2/4)
KRF-V5030D/V5030D-S/V5030DE (2/4)
KRF-V4530D (2/4)
KRF-V6030D/V6030D-S/V6030DE (2/4)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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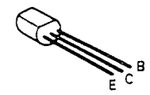
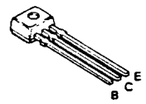
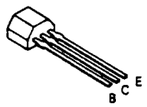
2SC1845
2SC2878



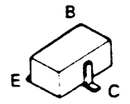
2SC2785



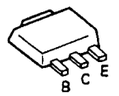
2SC1740S



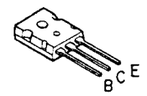
UN5219
2SA1576A
2SB1218A
2SD1819A



2SB1132
2SB1308



2SD1963



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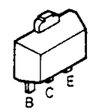

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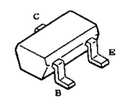
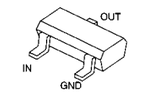
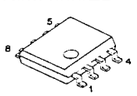
2SD1757K



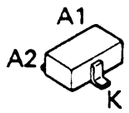
DTA124EUA
DTC123JUA
DTC124EUA



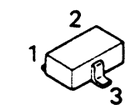
NJM4565M
NJM4565MD
NJM4580ED



DAN202U

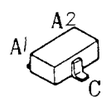


DAP202U
DA204U



MA142WA
MA142WK
UN5212

1SS301



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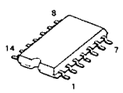
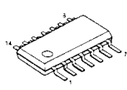


NJM2279M



Y05-4050-10

KRF-V4530D/V5030D/V6030D/VR-405/406/414

KENWOOD

EXCEPT USED (K,P) TYPE (X08-3010-10) (A/3)

USED (K,P) TYPE

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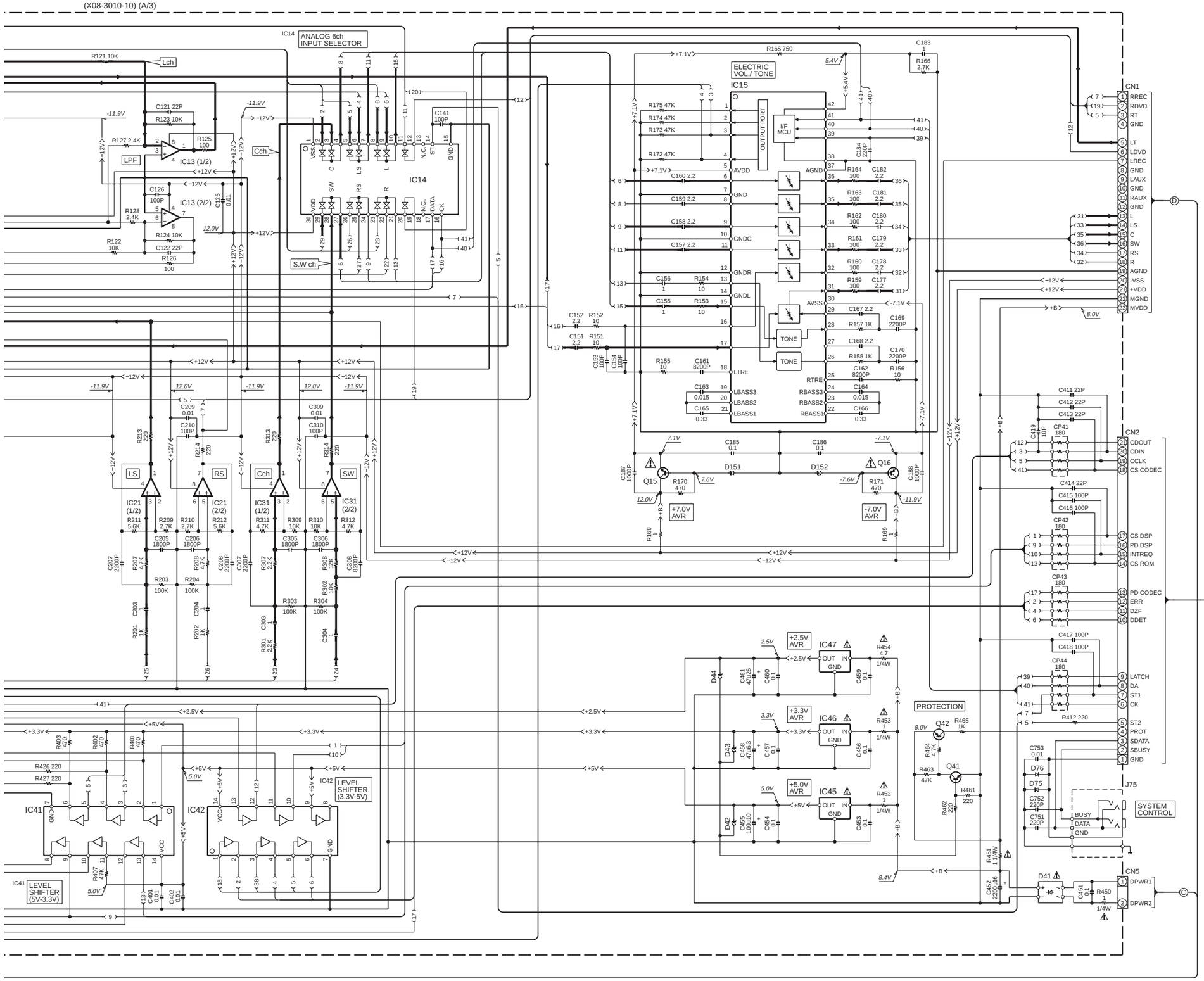
(X08-3010-10) (A/3)



IC1,11,13,21,31 : NJM4565MD
IC2 : AK4527-VQ
IC4 : TCWU04FU
IC5 : AK4110-VF
IC6 : TC7WH123FU
IC12,14 : NJM7311AM
IC15 : M62446FP
IC41 : TC74HC07AF
IC42 : TC74HCT7007AF
IC45 : TA48M05F
IC46 : TA48M033F
IC47 : TA48M025F
IC51 : CS493253-CLR or CS493263-CLR
IC61 : NJM2279M

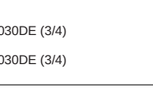
Q1 : DTC124EUA or UN5212
Q15,61 : 2SD1664(Q,R) or 2SD1963(R,S)-G
Q16,62 : 2SB1132(Q,R) or 2SB1308(Q,R)-G
Q41 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q42 : 2SA1576A(R,S) or 2SB1218A(Q,R)

D1,3 : 1SS301 or DAN202U or MA142WK
D2 : 1SS300 or DAP202U or MA142WA
D6,75,76 : MA111
D41 : S1ZB20(4072)
D42,43,61,62 : UDZ5.6B
D44 : UDZ3.9B
D151,152 : UDZ7.5B

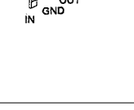
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

2SD2351



LC72131



NJU7311AM
NJU7313AM

LA1837
LA1838

XC62FP5102P

S-80840ANY

TC7WU04FU

BA05T

M62446FP

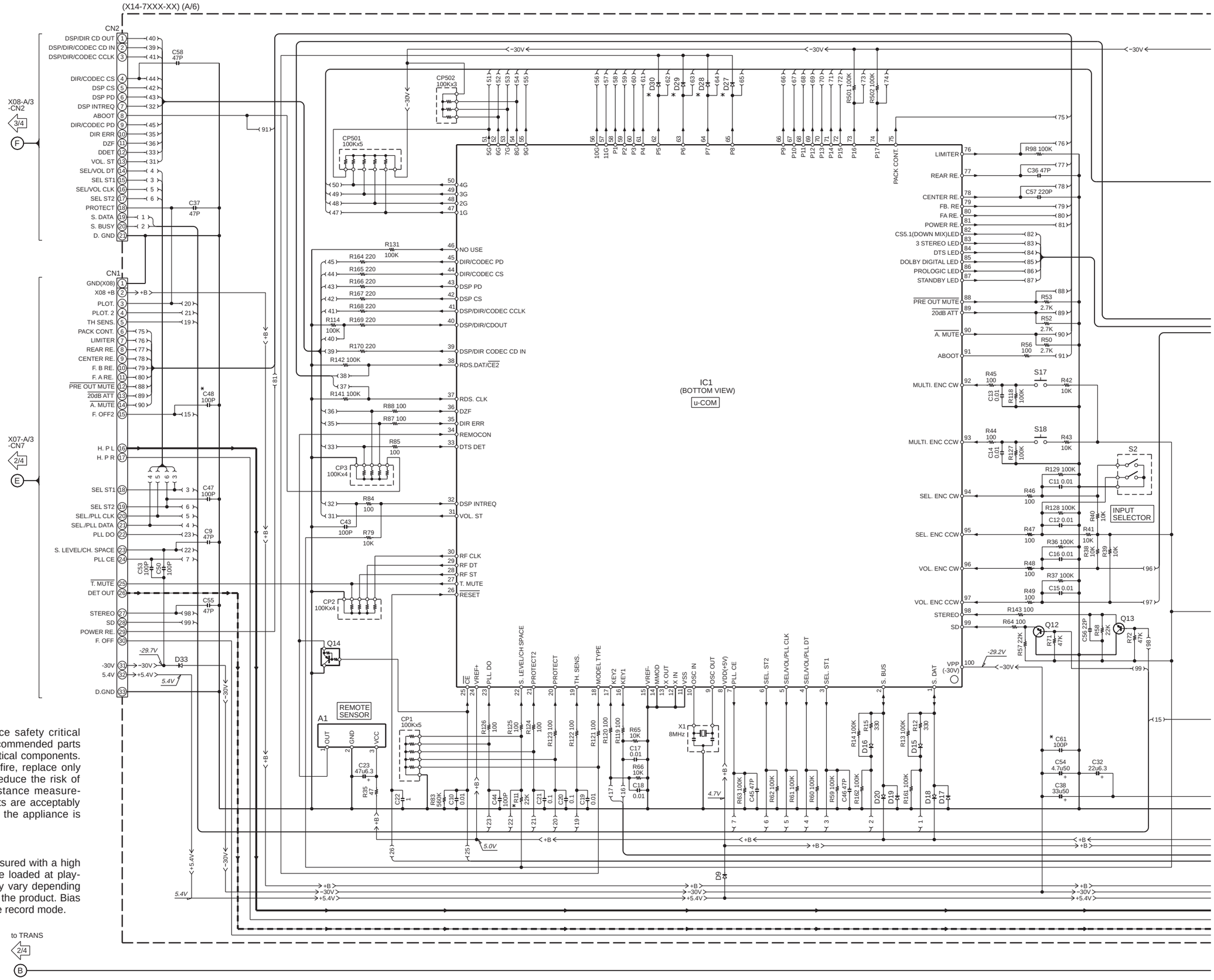
TA48M033F

VR-405/406/414 (3/4)
KRF-V5030D/V5030D-S/V5030DE (3/4)
KRF-V4530D (3/4)
KRF-V6030D/V6030D-S/V6030DE (3/4)

Y05-4050-10

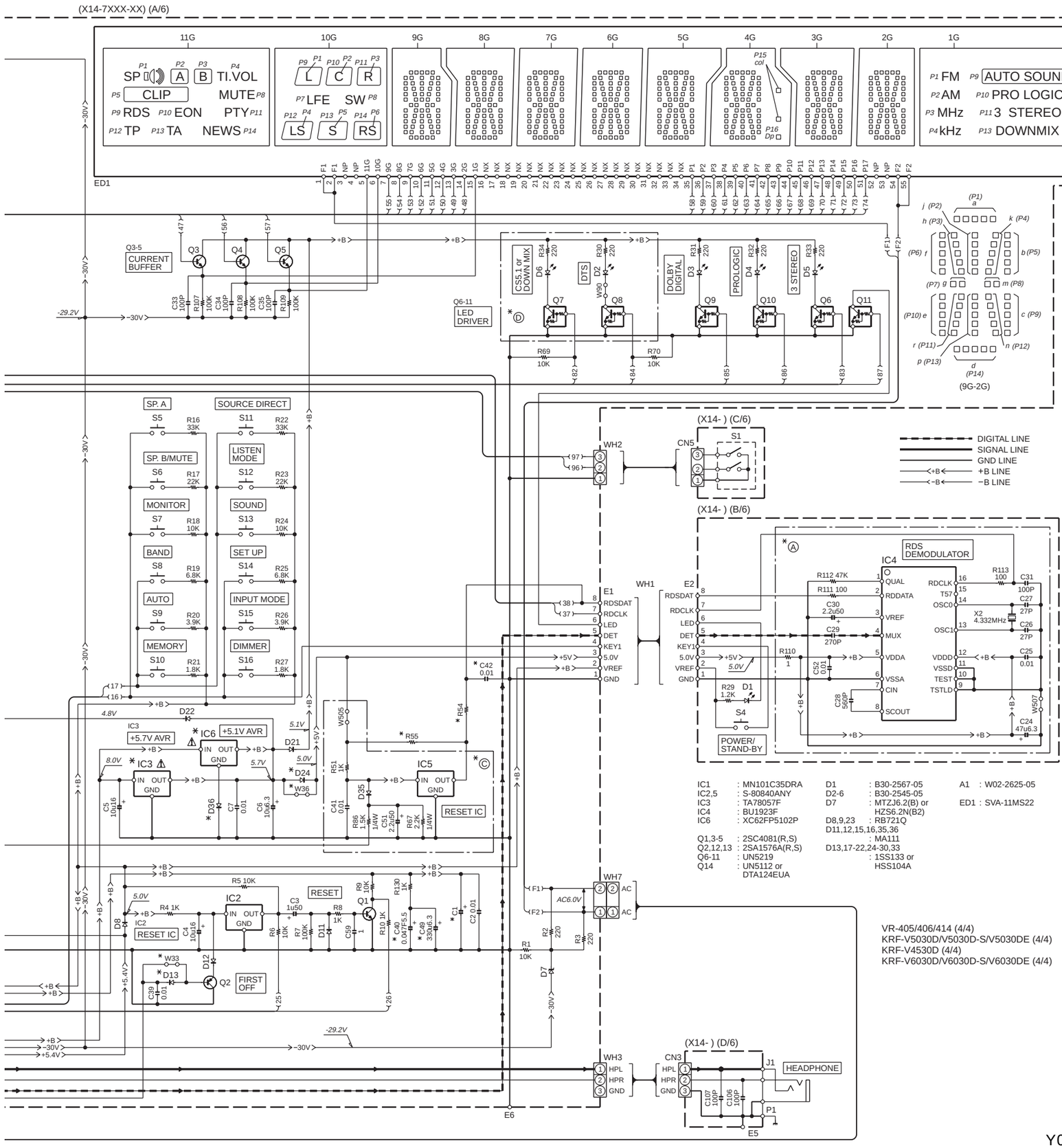
KRF-V4530D/V5030D/V6030D/VR-405/406/414

KENWOOD



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.



VR-406 (X14-7120-10)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓓ	C1	C40,41,42, 48,51,61	C49,
COUNTRY	ABB.					
U.S.A.	K	0-10	NO	330u6.3	NO	YES
CANADA	P					

DESTINATION		D13, 27	D24, 28-30,35,36	IC3	IC5, 6	R11,51 67,68	R54, 55	R69, 70	W33,36, 505
COUNTRY	ABB.								
U.S.A.	K	YES	NO	YES	NO	NO	NO	YES	NO
CANADA	P								

KRF-V6030D (X14-7122-71) : KRF-V6030DE (X14-7122-71)

DESTINATION		UNIT No.	Ⓐ	Ⓑ Ⓒ Ⓓ	C1	C40, 61	C41,42,48, 49,51
COUNTRY	ABB.						
EUROPE	E	2-71	YES	NO	100u10	YES	NO

DESTINATION		D13,29, 35,36	D24,27, 28,30	IC3	IC5, 6	R11,51 67,68	R54, 55	R69, 70	W33	W36, 505
COUNTRY	ABB.									
EUROPE	E	NO	YES	YES	NO	NO	NO	YES	YES	NO

KRF-V6030D-S (X14-712X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓓ	Ⓒ	C1	C40, 42	C41, 48,51	C49, 61
COUNTRY	ABB.							
GENERAL MARKET	M	0-21	NO	YES	100u10	YES	YES	NO
MALAYSIA	I			NO			NO	
AUSTRALIA	X	0-71						

DESTINATION		D13, 30	D24	D27, 28	D29	D35, 36	IC3	IC5, 6	R11,51, 67,86	R54, 55	R69, 70	W33, 505	W36
COUNTRY	ABB.												
GENERAL MARKET	M	NO	NO	YES	NO	YES	NO	YES	YES	10K	YES	YES	YES
MALAYSIA	I		YES		YES	NO	YES	NO	NO	4.7K			NO
AUSTRALIA	X												

VR-405/414 (X14-7120-11)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓓ	C1	C40,41,42, 48,51,61	C49,
COUNTRY	ABB.					
U.S.A.	K	0-11	NO	330u6.3	NO	YES
CANADA	P					

DESTINATION		D13	D24,27-30, 35,36	IC3	IC5, 6	R11,51, 67,86	R54, 55	R69, 70	W33,36, 505
COUNTRY	ABB.								
U.S.A.	K	YES	NO	YES	NO	NO	NO	YES	NO
CANADA	P								

KRF-V5030D-S (X14-712X-XX) : KRF-V4530D,KRF-V5030D (X14-712X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ Ⓓ	Ⓒ	C1	C40	C41,48, 51	C42	C49	C61
COUNTRY	ABB.										
GENERAL MARKET	M	0-22	NO	NO	YES	100u10	YES	YES	YES	NO	NO
MALAYSIA	I				NO			NO			
AUSTRALIA	X	0-72									
EUROPE	E	2-72	YES								YES

DESTINATION		D13, 27	D24	D28	D29	D30	D35, 36	IC3	IC5, 6	R11,51 67,68	R54, 55	R69, 70	W33	W36	W505
COUNTRY	ABB.														
GENERAL MARKET	M	NO	NO	YES	NO	NO	YES	NO	YES	YES	10K	YES	YES	YES	YES
MALAYSIA	I		YES		YES		NO	YES	NO	NO	4.7K			NO	
AUSTRALIA	X				NO	YES					NO				NO
EUROPE	E														

KRF-V5030D (X14-712X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ Ⓓ	Ⓒ	C1	C40	C41,42, 48,51	C49	C61
COUNTRY	ABB.									
PX	Y	0-22	NO	NO	YES	100u10	YES	YES	NO	NO
U.K.	T	2-72	YES		NO			NO		YES

DESTINATION		D13, 27-29	D24, 30	D28	D35, 36	IC3	IC5, 6	R11,51, 67,86	R30, 34	R54, 55	R69, 70	W33	W36, 505
COUNTRY	ABB.												
PX	Y	NO	NO	YES	YES	NO	YES	YES	NO	10K	YES	YES	YES
U.K.	T		YES		NO	YES	NO	NO		NO			NO

VR-405/406/414 (4/4)
KRF-V5030D/V5030D-S/V5030DE (4/4)
KRF-V4530D (4/4)
KRF-V6030D/V6030D-S/V6030DE (4/4)

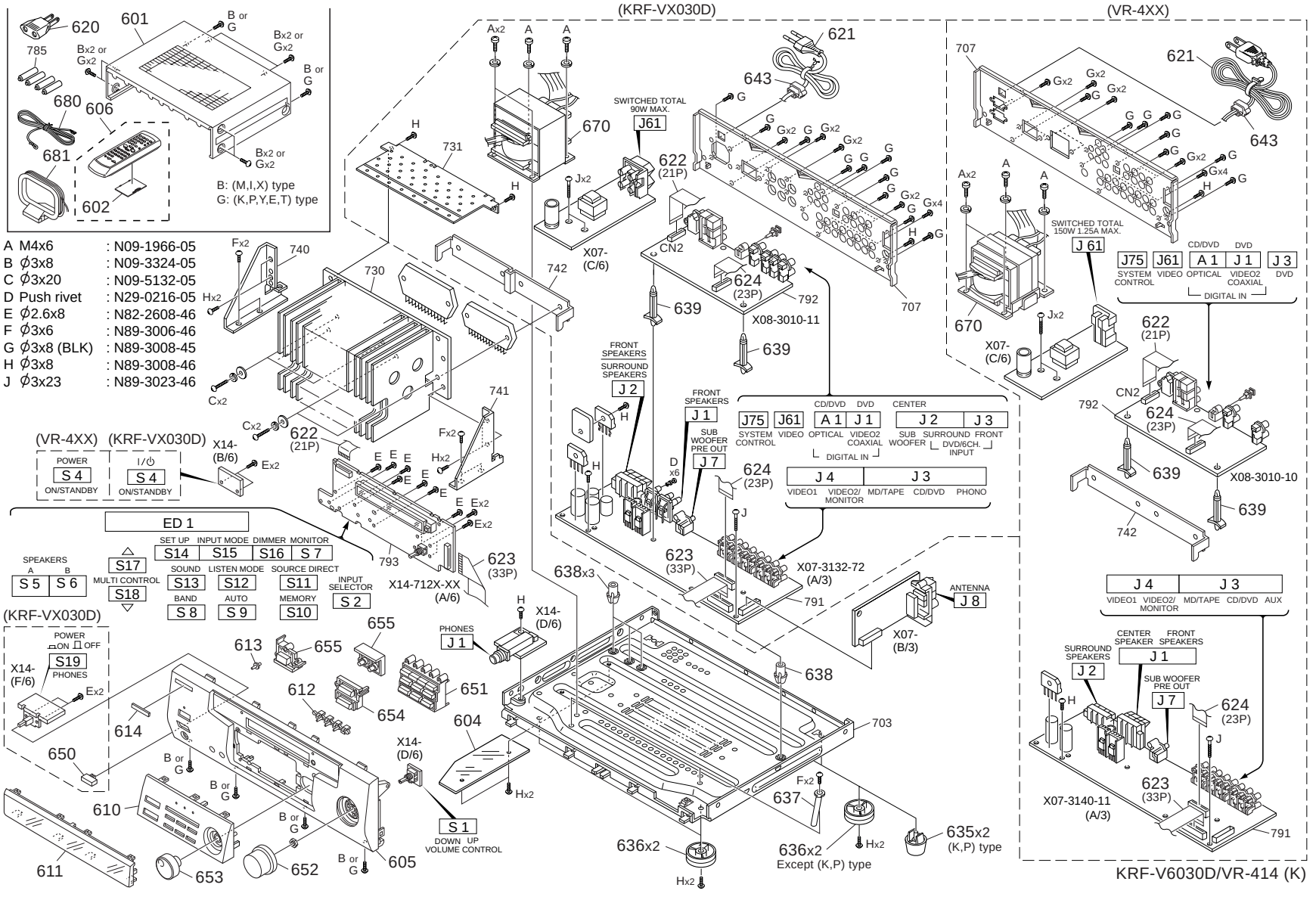
Y05-4050-10

KRF-V4530D/V5030D/V6030D/VR-405/406/414

KENWOOD

KRF-V4530D/V5030D/V6030D/VR-405/406/414

EXPLODED VIEW (UNIT)



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❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
KRF-V6030D/VR-406 (Y05-4020-10)						
601	1A	✻	A01-3733-01	METALLIC CABINET	KPE	
601	1A	✻	A01-3734-01	METALLIC CABINET	MIX	
602	1A	✻	A09-1178-08	BATTERY COVER		
604	2B	✻	A46-0309-04	REAR COVER		
605	2A	✻	A60-1740-11	PANEL	KP	
605	2A	✻	A60-1757-11	PANEL	MIX	
605	2A	✻	A60-1758-11	PANEL	E	
606	1A	✻	A70-1330-05	REMOTE CONTROL(RC-R0609)	KPMIX	
606	1A	✻	A70-1331-05	REMOTE CONTROL(RC-R0610)	E	
610	2A	✻	B07-2477-02	ESCUTCHEON	KPE	
610	2A	✻	B07-2478-02	ESCUTCHEON	MIX	
611	2A	✻	B10-3549-02	FRONT GLASS	KP	
611	2A	✻	B10-3550-02	FRONT GLASS	MIX	
611	2A	✻	B10-3551-02	FRONT GLASS	E	
612	2A	✻	B12-0384-04	INDICATOR		
613	2A	✻	B12-0385-04	INDICATOR		
614	2A	✻	B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	E	
-			B46-0328-03	WARRANTY CARD	K	
-			B46-0346-00	QUESTIONAIRE CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0964-13	CAUTION CARD (UL)	K	
-			B58-0965-13	CAUTION CARD (PL)	X	
-			B58-0966-13	CAUTION CARD (PL)	MIE6	
-			B58-0967-03	CAUTION CARD (PL)	P	
-			B58-1607-03	CAUTION CARD	E7	
-		✻	B60-4598-00	INSTRUCTION MANUAL(EN)	KPMIX	
-		✻	B60-4599-00	INSTRUCTION MANUAL(FR)	P	
-		✻	B60-4600-00	INSTRUCTION MANUAL(TC)	MI	
-		✻	B60-4602-00	INSTRUCTION MANUAL(EN)	E7	
-		✻	B60-4603-00	INSTRUCTION MANUAL(ES)	ME6	
-		✻	B60-4604-00	INSTRUCTION MANUAL(FR/GE)	E6	
-		✻	B60-4605-00	INSTRUCTION MANUAL(IT/NE)	E6	
-		✻	B60-4606-00	INSTRUCTION MANUAL(RU/PL)	E7	
-		✻	B60-4607-00	INSTRUCTION MANUAL(CZ/HU)	E7	
-		✻	B60-4617-00	INSTRUCTION MANUAL(EN(R))	KPMIX	
-		✻	B60-4618-00	INSTRUCTION MANUAL(FR(R))	P	
-		✻	B60-4619-00	INSTRUCTION MANUAL(ES(R))	M	
-		✻	B60-4620-00	INSTRUCTION MANUAL(TC(R))	MI	
-		✻	B60-4622-00	INSTRUCTION MANUAL(5-L(R))	E6	
-		✻	B60-4623-00	INSTRUCTION MANUAL(5-L(R))	E7	
⚠ 620	1A		E03-0115-05	AC PLUG ADAPTER	MI	
⚠ 621	1B		E30-2717-05	AC POWER CORD	X	
⚠ 621	1B	✻	E30-2941-05	AC POWER CORD	KP	
⚠ 621	1B	✻	E30-2942-05	AC POWER CORD	MIE	
622	1A,1B	✻	E35-2455-05	FLAT CABLE (21P)		
623	2B	✻	E35-2456-05	FLAT CABLE (33P)		
624	1B,2B	✻	E35-2480-05	FLAT CABLE (23P)		
-		✻	G10-0536-04	NON-WOVEN FABRIC		
-			G11-2416-04	CUSHION		

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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
-		✻	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-3607-04	ITEM CARTON CASE	KP	
-		✻	H50-3608-04	ITEM CARTON CASE	E6	
-		✻	H50-3609-04	ITEM CARTON CASE	X	
-		✻	H50-3610-04	ITEM CARTON CASE	MI	
-		✻	H50-3651-04	ITEM CARTON CASE	E7	
635	2C		J02-1013-05	FOOT	KP	
636	2B	✻	J02-1464-03	FOOT		
637	2B		J19-2808-05	HOLDER		
638	2B		J19-3752-14	UNIT HOLDER		
639	1B		J19-5919-05	UNIT HOLDER		
⚠ 643	1B		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	✻	K27-2384-04	KNOB (BUTTON)	E	
650	2A	✻	K27-2385-04	KNOB (BUTTON)	MIX	
651	2B	✻	K29-7675-12	KNOB	KPE	
651	2B	✻	K29-7676-12	KNOB	MIX	
652	2A	✻	K29-7678-04	KNOB	KPE	
652	2A	✻	K29-7679-04	KNOB	MIX	
653	2A	✻	K29-7681-14	KNOB	KPE	
653	2A	✻	K29-7682-14	KNOB	MIX	
654	2A	✻	K29-7684-03	KNOB	KPE	
654	2A	✻	K29-7685-03	KNOB	MIX	
655	2A	✻	K29-7687-03	KNOB	KPE	
655	2A	✻	K29-7688-03	KNOB	MIX	
⚠ 670	1B	✻	L07-2787-05	POWER TRANSFORMER	KP	
⚠ 670	1B	✻	L07-2788-05	POWER TRANSFORMER	MI	
⚠ 670	1B	✻	L07-2789-05	POWER TRANSFORMER	X	
⚠ 670	1B	✻	L07-2790-05	POWER TRANSFORMER	E	
680	1A		T90-0836-05	LEAD WIRE ANTENNA		
681	1A	✻	T90-0852-05	LOOP ANTENNA		
KRF-V5030D/KRF-V4530D/VR-405/VR-414 (Y05-4050-10)						
601	1A	✻	A01-3733-01	METALLIC CABINET	E1E2E4	
601	1A	✻	A01-3733-01	METALLIC CABINET	KPYT	
601	1A	✻	A01-3734-01	METALLIC CABINET	E3	
601	1A	✻	A01-3734-01	METALLIC CABINET	MIX	
602	1A	✻	A09-1178-08	BATTERY COVER		
604	2B	✻	A46-0309-04	REAR COVER		
605	2A	✻	A60-1759-01	PANEL	KP	
605	2A	✻	A60-1760-11	PANEL	MIXE3	
605	2A	✻	A60-1761-11	PANEL	E1E2E4	
605	2A	✻	A60-1761-11	PANEL	YT	
606	1A	✻	A70-1328-05	REMOTE CONTROL(RC-R0509)	KPYMIX	
606	1A	✻	A70-1329-05	REMOTE CONTROL(RC-R0510)	ET	
610	2A	✻	B07-2477-02	ESCUTCHEON	E1E2E4	
610	2A	✻	B07-2477-02	ESCUTCHEON	KPYT	
610	2A	✻	B07-2478-02	ESCUTCHEON	MIXE3	
611	2A	✻	B10-3552-02	FRONT GLASS	K5P5	
611	2A	✻	B10-3553-02	FRONT GLASS	YMIX	

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❸

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
611	2A	✻	B10-3574-02	FRONT GLASS	E1E2E3	
611	2A	✻	B10-3574-02	FRONT GLASS	T	
611	2A	✻	B10-3575-02	FRONT GLASS	K4P4	
611	2A	✻	B10-3605-02	FRONT GLASS	E4	
612	2A	✻	B12-0384-04	INDICATOR		
613	2A	✻	B12-0385-04	INDICATOR		
614	2A	✻	B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	ET	
-			B46-0328-03	WARRANTY CARD	KY	
-			B46-0346-00	QUESTIONAIRE CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0945-03	CAUTION CARD	T	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-			B58-0965-13	CAUTION CARD (PL)	XT	
-			B58-0966-13	CAUTION CARD (PL)	E1E3E4	
-			B58-0966-13	CAUTION CARD (PL)	MI	
-		✻	B58-0967-03	CAUTION CARD (L)	P	
-		✻	B58-1607-03	CAUTION CARD	E2	
-		✻	B59-1104-00	SERVICE DIRECTORY	Y	
-		✻	B60-4598-00	INSTRUCTION MANUAL(EN)	KPYMIX	
-		✻	B60-4599-00	INSTRUCTION MANUAL(FR)	P	
-		✻	B60-4600-00	INSTRUCTION MANUAL(TC)	MI	
-		✻	B60-4602-00	INSTRUCTION MANUAL(EN)	T1E2	
-		✻	B60-4603-00	INSTRUCTION MANUAL(ES)	E1E3E4	
-		✻	B60-4603-00	INSTRUCTION MANUAL(ES)	M	
-		✻	B60-4604-00	INSTRUCTION MANUAL(FR/GE)	E1E3E4	
-		✻	B60-4605-00	INSTRUCTION MANUAL(IT/NE)	E1E3E4	
-		✻	B60-4606-00	INSTRUCTION MANUAL(RU/PL)	E2	
-		✻	B60-4607-00	INSTRUCTION MANUAL(CZ/HU)	E2	
⚠ 620	1A		E03-0115-05	AC PLUG ADAPTER	MI	
⚠ 621	1C		E30-2605-05	AC POWER CORD	Y	
⚠ 621	1C		E30-2717-05	AC POWER CORD	X	
⚠ 621	1C		E30-2721-05	AC POWER CORD	T	
⚠ 621	1C	✻	E30-2941-05	AC POWER CORD	KP	
⚠ 621	1C	✻	E30-2942-05	AC POWER CORD	MIE	
622	1A,1C	✻	E35-2455-05	FLAT CABLE (21P)		
623	2B,2C	✻	E35-2456-05	FLAT CABLE (33P)		
624	1C,2C	✻	E35-2480-05	FLAT CABLE (23P)		
-			G10-0536-04	NON-WOVEN FABRIC		
-			G11-2416-04	CUSHION		
-		✻	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	E	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMIX	
-			H25-0391-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG	T	
-		✻	H50-3611-04	ITEM CARTON CASE	K5P5	
-		✻	H50-3612-04	ITEM CARTON CASE	YE1T	
-		✻	H50-3613-04	ITEM CARTON CASE	XE3	
-		✻	H50-3614-04	ITEM CARTON CASE	MI	
-		✻	H50-3615-04	ITEM CARTON CASE	K4P4	

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❹

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
-		✻	H50-3661-04	ITEM CARTON CASE	E2	
-		✻	H50-3734-04	ITEM CARTON CASE	E4	
635	2C		J02-1013-05	FOOT	KP	
636	2B	✻	J02-1464-03	FOOT		
637	2B		J19-2808-05	HOLDER		
638	2B		J19-3752-14	UNIT HOLDER		
639	2C		J19-5919-05	UNIT HOLDER		
⚠ 643	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	✻	K27-2384-04	KNOB (BUTTON)	E1E2E4	
650	2A	✻	K27-2384-04	KNOB (BUTTON)	YT	
650	2A	✻	K27-2385-04	KNOB (BUTTON)	MIXE3	
651	2B	✻	K29-7675-12	KNOB	E1E2E4	
651	2B	✻	K29-7675-12	KNOB	KPYT	
651	2B	✻	K29-7676-12	KNOB	MIXE3	
652	2A	✻	K29-7678-04	KNOB	E1E2E4	
652	2A	✻	K29-7678-04	KNOB	KPYT	
652	2A	✻	K29-7679-04	KNOB	MIXE3	
653	2A	✻	K29-7681-14	KNOB	E1E2E4	
653	2A	✻	K29-7681-14	KNOB	KPYT	
653	2A	✻	K29-7682-14	KNOB	MIXE3	
654	2A	✻	K29-7684-03	KNOB	E1E2E4	
654	2A	✻	K29-7684-03	KNOB	KPYT	
654	2A	✻	K29-7685-03	KNOB	MIXE3	
655	2A	✻	K29-7687-03	KNOB	E1E2E4	
655	2A	✻	K29-7687-03	KNOB	KPYT	
655	2A	✻	K29-7688-03	KNOB	MIXE3	
⚠ 670	1C	✻	L07-2794-05	POWER TRANSFORMER	K5P5	
⚠ 670	1C	✻	L07-2795-05	POWER TRANSFORMER	YMI	
⚠ 670	1C	✻	L07-2796-05	POWER TRANSFORMER	X	
⚠ 670	1C	✻	L07-2797-05	POWER TRANSFORMER	E	
⚠ 670	1C	✻	L07-2800-05	POWER TRANSFORMER	K4P4	
680	1A		T90-0836-05	LEAD WIRE ANTENNA		
681	1A	✻	T90-0852-05	LOOP ANTENNA		

POWER SUPPLY (X00-3000-20) Y,M,I type only

CN1			E40-8386-05	PIN ASSY			
⚠ F3			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)			
CN2 ,3			J13-0075-05	FUSE CLIP			
⚠ S1			S62-0001-05	SLIDE SWITCH			

POWER AMP (X07-3130-11, X07-3140-10)

C1			CK73FB1H223K	CHIP C	0.022UF	K	
C2			CK73FB1H103K	CHIP C	0.010UF	K	ET
C3			CK73FB1H103K	CHIP C	0.010UF	K	
C4			CC73FCH1H331J	CHIP C	330PF	J	KPET
C5 ,6			CK73FB1H103K	CHIP C	0.010UF	K	
C7			CE04LW1C470M	ELECTRO	47UF	16WV	
C8			CK73EB1H103K	CHIP C	0.010UF	K	YMIX
C9			CC73FCH1H102J	CHIP C	1000PF	J	MXIY
C10			CE04LW1C470M	ELECTRO	47UF	16WV	
C11 ,12			CK73FB1H473K	CHIP C	0.047UF	K	

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C14			CE04LW1C100M	ELECTRO	10UF	16WV		
C15			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C16			CE04RW1HR47M	ELECTRO	0.47UF	50WV		
C17			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C18			CC73FCH1H470J	CHIP C	47PF	J		
C19			CE04RW1A100M	ELECTRO	10UF	10WV		
C20			CK73FB1H473K	CHIP C	0.047UF	K		
C21			CE04RW1V3R3M	ELECTRO	3.3UF	35WV		
C22			CK73FB1H473K	CHIP C	0.047UF	K		
C23			CE04LW1C100M	ELECTRO	10UF	16WV		
C24			CK73FB1H331K	CHIP C	330PF	K		
C25			CC73FCH1H181J	CHIP C	180PF	J	ET	
C25			CC73FCH1H471J	CHIP C	470PF	J	KPYMIX	
C26			CK73FB1H183K	CHIP C	0.018UF	K	ET	
C26			CK73FB1H223K	CHIP C	0.022UF	K	KPYMIX	
C27			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV		
C28 ,29			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K	YMIXET	
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K	KP	
C32			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C33 ,34			CK73FB1H103K	CHIP C	0.010UF	K	YMI	
C35			CK73FB1H332K	CHIP C	3300PF	K	KPYMIX	
C36			CK73FB1H103K	CHIP C	0.010UF	K		
C37 ,38			CE04LW1C100M	ELECTRO	10UF	16WV		
C41			CC73FCH1H470J	CHIP C	47PF	J		
C42			CC73FCH1H120J	CHIP C	12PF	J		
C43			CC73FCH1H100D	CHIP C	10PF	D		
C44			CK73FB1H471K	CHIP C	470PF	K		
C45			CC73FCH1H220J	CHIP C	22PF	J		
C46			CE04LW1C100M	ELECTRO	10UF	16WV		
C47			CK73FB1H102K	CHIP C	1000PF	K		
C48			CE04LW1C470M	ELECTRO	47UF	16WV		
C49			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C50			CC73FCH1H101J	CHIP C	100PF	J		
C51			CK73FB1H471K	CHIP C	470PF	K		
C52			CC73FCH1H101J	CHIP C	100PF	J		
C70 ,71			CK73FB1H682K	CHIP C	6800PF	K	ET	
C72			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C73			CE04LW1C470M	ELECTRO	47UF	16WV		
C74			CK73FB1H102K	CHIP C	1000PF	K	KP	
C75			CC73FCH1H030C	CHIP C	3.0PF	C		
C76			CC73FCH1H470J	CHIP C	47PF	J		
C77			CC73FCH1H101J	CHIP C	100PF	J	YMI	
C78			CK73FB1H223K	CHIP C	0.022UF	K		
C79 ,80			CK73FB1H472K	CHIP C	4700PF	K	ET	
C81			CK73FF1C105Z	CHIP C	1.0UF	Z		
C82			CK73FB1H103K	CHIP C	0.010UF	K	KPET	
C83			CC73FCH1H101J	CHIP C	100PF	J		
C84 ,85			CK73FB1H223K	CHIP C	0.022UF	K		
C86			CK73FB1H471K	CHIP C	470PF	K		
C88			CK73FB1H332K	CHIP C	3300PF	K		
C89 ,90			CK73FB1H472K	CHIP C	4700PF	K	KPYMIX	
C91			CK73FF1C105Z	CHIP C	1.0UF	Z		
C101,102			CC73FCH1H221J	CHIP C	220PF	J	KP	45
C101,102			CC73FCH1H390J	CHIP C	39PF	J		6

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C101,102			CC73FCH1H390J	CHIP C	39PF	J	ETXMIY	5
C103,104		✻	CE04RW1V100M	ELECTRO	10UF	35WV		6
C103,104		✻	CE04RW1V100M	ELECTRO	10UF	35WV	ETXMIY	5
C105,106			CC73FCH1H221J	CHIP C	220PF	J		6
C105,106			CC73FCH1H221J	CHIP C	220PF	J	ETMXIY	5
C107,108			CE04RW0J470M	ELECTRO	47UF	6.3WV		6
C107,108			CE04RW0J470M	ELECTRO	47UF	6.3WV	ETMXIY	5
C109,110			CC73FCH1H471J	CHIP C	470PF	J		6
C109,110			CC73FCH1H471J	CHIP C	470PF	J	ETXMIY	5
C111,112			CQ93FMG1H123J	MYLAR	0.012UF	J		6
C111,112			CQ93FMG1H123J	MYLAR	0.012UF	J	ETMXIY	5
C113,114			CK45FB1H332K	CERAMIC	3300PF	K		6
C113,114			CK45FB1H332K	CERAMIC	3300PF	K	ETMXIY	5
C115,116			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		6
C115,116			CE04LW1V4R7M	ELECTRO	4.7UF	35WV	ETMXIY	5
C117,118			CC45FCH1H101J	CERAMIC	100PF	J		6
C117,118			CC45FCH1H101J	CERAMIC	100PF	J	ETMXIY	5
C119-132			CC73FCH1H221J	CHIP C	220PF	J		
C137,138			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C139,140			CC73FCH1H101J	CHIP C	100PF	J		
C141,142			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C143,144			CC73FCH1H101J	CHIP C	100PF	J		
C145,146			CE04LW1C220M	ELECTRO	22UF	16WV		
C147,148			CC73FCH1H471J	CHIP C	470PF	J		
C149,150			CE04LW1E470M	ELECTRO	47UF	25WV		
C151,152			CC73FCH1H100D	CHIP C	10PF	D		
C153,154			CE04KW1H100M	ELECTRO	10UF	50WV		
C155,156			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C157,158			CC73FCH1H102J	CHIP C	1000PF	J		
C159,160			CK73FB1H222K	CHIP C	2200PF	K		
C161,162			CC73FCH1H220J	CHIP C	22PF	J		
C163,164			CC73FCH1H102J	CHIP C	1000PF	J		
C165,166			CE04KW1A101M	ELECTRO	100UF	10WV		
C167-170			CK73FF1E104Z	CHIP C	0.10UF	Z		
C171,172			CQ93FMG1H472J	MYLAR	4700PF	J		
C175,176			CC73FCH1H471J	CHIP C	470PF	J		
C177,178			CE04LW1E470M	ELECTRO	47UF	25WV		
C179,180			CC73FCH1H100D	CHIP C	10PF	D		
C181,182			CE04KW1H100M	ELECTRO	10UF	50WV		
C183,184			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C185,186			CC73FCH1H102J	CHIP C	1000PF	J		
C187,188			CK73FB1H222K	CHIP C	2200PF	K		
C189,190			CC45FCH1H220J	CERAMIC	22PF	J		
C191,192			CC73FCH1H102J	CHIP C	1000PF	J		
C193,194			CE04KW1A101M	ELECTRO	100UF	10WV		
C195-198			CK73FF1E104Z	CHIP C	0.10UF	Z		
C199			CQ93FMG1H472J	MYLAR	4700PF	J		6
C200,201			CQ93FMG1H472J	MYLAR	4700PF	J		
C202			CQ93FMG1H472J	MYLAR	4700PF	J		6
C205			CC73FCH1H471J	CHIP C	470PF	J		
C206			CE04LW1E470M	ELECTRO	47UF	25WV		
C207			CC73FCH1H100D	CHIP C	10PF	D		
C208			CE04KW1H100M	ELECTRO	10UF	50WV		
C209			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C210			CC73FCH1H102J	CHIP C	1000PF	J		

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C211			CK73FB1H222K	CHIP C	2200PF	K		
C212			CC45FCH1H220J	CERAMIC	22PF	J		
C213			CC73FCH1H102J	CHIP C	1000PF	J		
C214			CE04KW1A101M	ELECTRO	100UF	10WV		
C215,216			CK73FF1E104Z	CHIP C	0.10UF	Z		
C217			CQ93FMG1H472J	MYLAR	4700PF	J		
C220			CC73FCH1H471J	CHIP C	470PF	J		
C221			CE04LW1A101M	ELECTRO	100UF	10WV		
C222			CC73FCH1H101J	CHIP C	100PF	J		
C223			CE04LW1H100M	ELECTRO	10UF	50WV		
C224			CC73FCH1H221J	CHIP C	220PF	J		
C225,226			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C231,232		✻	C90-3916-05	ELECTRO	4700UF	75WV	KP	56
C231,232		✻	C90-3916-05	ELECTRO	4700UF	75WV	MIXY	
C231,232		✻	C90-3918-05	ELECTRO	4700UF	63WV	ET	
C231,232		✻	C90-3918-05	ELECTRO	4700UF	63WV	KP	4
C233,234		✻	C90-3917-05	ELECTRO	3300UF	42WV	KP	56
C233,234		✻	C90-3917-05	ELECTRO	3300UF	42WV	MIXY	
C233,234		✻	C90-3919-05	ELECTRO	3300UF	35WV	ET	
C235			CE04KW1E222M	ELECTRO	2200UF	25WV		
C236			CE04KW1E471M	ELECTRO	470UF	25WV		
C237,238			CE04LW1C101M	ELECTRO	100UF	16WV		
C239			CE04LW1H220M	ELECTRO	22UF	50WV		
C240			CE04LW1V470M	ELECTRO	47UF	35WV		5
C241			CC45FCH1H101J	CERAMIC	100PF	J		6
C241			CC45FCH1H101J	CERAMIC	100PF	J	ETMXIY	5
C242			CK45FF1H103Z	CERAMIC	0.010UF	Z		6
C242			CK45FF1H103Z	CERAMIC	0.010UF	Z	ETMXIY	5
C245			CC73FCH1H221J	CHIP C	220PF	J		
C246			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C248			CC73FCH1H221J	CHIP C	220PF	J		
C250			CC73FCH1H102J	CHIP C	1000PF	J		
C251,252			CE04KW2A100M	ELECTRO	10UF	100WV		
C253,254			CE04KW2A101M	ELECTRO	100UF	100WV		
C255,256			CE04DW1J101M	ELECTRO	100UF	63WV		6
C255,256			CE04DW1J101M	ELECTRO	100UF	63WV	ETMXIY	5
C255,256			CE04DW1J101M	ELECTRO	100UF	63WV	KP	5
C259			CE04LW1A101M	ELECTRO	100UF	10WV		
C260			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C261			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C262			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C263			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C264			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C269			CK45FE2H103P	CERAMIC	0.010UF	P	KP	4
C415			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C416,417			CE04HW1E100M	NP-ELEC	10UF	25WV		
C601			CE04LW1E332M	ELECTRO	3300UF	25WV		
C602			CE04LW1H100M	ELECTRO	10UF	50WV		
C603			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C604			CE04LW1H100M	ELECTRO	10UF	50WV		
C605			CE04LW0J222M	ELECTRO	2200UF	6.3WV	YMI	
C606			CK73FB1E104K	CHIP C	0.10UF	K	KPETX	
C606			CK73FB1H683K	CHIP C	0.068UF	K	MIY	
CN1			E40-8364-05	PIN ASSY				

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CN2			E40-8197-05	SOCKET FOR PIN ASSY					
CN3		✻	E40-8485-05	FLAT CABLE CONNECTOR					
CN4			E40-4871-05	PIN ASSY				KPET	
CN5			E40-9831-05	SOCKET FOR PIN ASSY					
CN6			E40-9848-05	PIN ASSY					
CN7		✻	E40-8490-05	FLAT CABLE CONNECTOR					
CN61			E40-4245-05	PIN ASSY					
CN62			E40-4245-05	PIN ASSY				KPETX	
CN63			E40-4428-05	PIN ASSY				YMI	
CN64			E40-4245-05	PIN ASSY				YMIXET	
CN65			E40-8196-05	PIN ASSY					
J1			E70-0049-05	SCREW TERMINAL BOARD					6
J1		✻	E70-0122-05	LOCK TERMINAL BOARD					45
J2			E70-0057-05	LOCK TERMINAL BOARD					6
J2			E70-0065-05	LOCK TERMINAL BOARD					45
J3 ,4		✻	E63-1143-05	PIN JACK					
J7		✻	E63-1146-05	PIN JACK					
J8			E20-0321-05	LOCK TERMINAL BOARD(2P,F)					
J8			E70-0052-05	LOCK TERMINAL BOARD					
⚠ J61			E03-0148-05	AC OUTLET				KPY	
⚠ J61			E03-0149-05	AC OUTLET				MIE	
⚠ J61			E03-0310-05	AC OUTLET				T	
⚠ J61			E03-0325-05	AC OUTLET				X	
W182			E31-0001-00	JUMPER WIRE					56
⚠ F1			F05-2525-05	FUSE (SEMKO)	(250V T2.5AL)			YMXI	5
⚠ F1			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			ET	
⚠ F1			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			MIX	6
⚠ F1			F50-0076-05	FUSE(5X20)				KP	4
⚠ F1			F50-0077-05	FUSE(5X20)				KP	56
⚠ F2			F05-2525-05	FUSE (SEMKO)	(250V T2.5AL)			E	
CN66,67			J13-0075-05	FUSE CLIP					
CN68,69			J13-0075-05	FUSE CLIP				E	
CF1 ,2			L72-0531-05	CERAMIC FILTER				YMIX	
CF1 ,2			L72-0536-05	CERAMIC FILTER				ET	
CF1 ,2			L72-0596-05	CERAMIC FILTER				KP	
CF3			L72-0607-05	CERAMIC FILTER				YMIX	
L1		✻	L39-1384-05	COMBINATION COIL					
L2			L40-1091-82	SMALL FIXED INDUCTOR(1.0UH)					
L3			L30-0911-05	AM IFT					
L4			L30-0933-05	FM IFT				KP	
L4			L30-0950-05	FM IFT				ET	
L5			L30-0951-05	FM IFT				ET	
L6 ,7			L79-1236-05	LC FILTER				ET	
L101-105			L39-1373-05	PHASE COMPENSATION COIL					
⚠ T1		✻	L07-2758-05	POWER TRANSFORMER				KPXET	
⚠ T1		✻	L07-2761-05	POWER TRANSFORMER				KPXET	
⚠ T1		✻	L07-2805-05	POWER TRANSFORMER				YMI	
X1			L77-2232-05	CRYSTAL RESONATOR					
R1			RK73FB2A101J	CHIP R	100	J	1/10W		
R4			RK73FB2A681J	CHIP R	680	J	1/10W		
R5			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R6			RK73FB2A221J	CHIP R	220	J	1/10W		
R7			RK73FB2A821J	CHIP R	820	J	1/10W		

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R8			RK73FB2A100J	CHIP R	10	J	1/10W	ET	
R8			RK73FB2A330J	CHIP R	33	J	1/10W	KPYMIX	
R9			RK73FB2A391J	CHIP R	390	J	1/10W		
R10			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R11			RK73FB2A220J	CHIP R	22	J	1/10W	ET	
R11			RK73FB2A330J	CHIP R	33	J	1/10W	KPYMIX	
R12			RK73FB2A101J	CHIP R	100	J	1/10W		
R14			RK73FB2A101J	CHIP R	100	J	1/10W	KPET	
R14			RK73FB2A271J	CHIP R	270	J	1/10W	MIXY	
R15			RK73FB2A333J	CHIP R	33K	J	1/10W	ET	
R15			RK73FB2A472J	CHIP R	4.7K	J	1/10W	KP	
R16			RK73FB2A220J	CHIP R	22	J	1/10W		
R17			RK73FB2A362J	CHIP R	3.6K	J	1/10W		
R18			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R19			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R20			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R23			RK73FB2A153J	CHIP R	15K	J	1/10W	ET	
R23			RK73FB2A332J	CHIP R	3.3K	J	1/10W	YMIX	
R23			RK73FB2A912J	CHIP R	9.1K	J	1/10W	KP	
R25			RK73FB2A163J	CHIP R	16K	J	1/10W	KP	
R25			RK73FB2A183J	CHIP R	18K	J	1/10W	YMIX	
R25			RK73FB2A273J	CHIP R	27K	J	1/10W	ET	
R27 ,28			RK73FB2A432J	CHIP R	4.3K	J	1/10W	ET	
R27 ,28			RK73FB2A682J	CHIP R	6.8K	J	1/10W	KP	
R27 ,28			RK73FB2A752J	CHIP R	7.5K	J	1/10W	YMIX	
R29			RK73FB2A101J	CHIP R	100	J	1/10W	YMI	
R30			RK73FB2A561J	CHIP R	560	J	1/10W	YMI	
R31			RK73FB2A473J	CHIP R	47K	J	1/10W	YMI	
R32			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KPYMIX	
R33 ,34			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R35			RK73FB2A101J	CHIP R	100	J	1/10W	ET	
R36			RK73FB2A102J	CHIP R	1.0K	J	1/10W	ET	
R37			RK73FB2A392J	CHIP R	3.9K	J	1/10W	ET	
R38			RK73FB2A102J	CHIP R	1.0K	J	1/10W	ET	
R39			RK73FB2A103J	CHIP R	10K	J	1/10W	ET	
R42			RK73FB2A103J	CHIP R	10K	J	1/10W		
R43			RK73FB2A221J	CHIP R	220	J	1/10W		
⚠ R44			RD14NB2E271J	RD	270	J	1/4W		
R45			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R46			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R47			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R48			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R49			RK73FB2A103J	CHIP R	10K	J	1/10W		
⚠ R50			RD14NB2E471J	RD	470	J	1/4W		
R51			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R52			RK73FB2A101J	CHIP R	100	J	1/10W		
R53			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R54			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R55			RK73FB2A333J	CHIP R	33K	J	1/10W		
R56 ,57			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R58			RK73FB2A123J	CHIP R	12K	J	1/10W		
R59			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R72 ,73			RK73FB2A153J	CHIP R	15K	J	1/10W	KP	
R72 ,73			RK73FB2A392J	CHIP R	3.9K	J	1/10W	ET	
R72 ,73			RK73FB2A822J	CHIP R	8.2K	J	1/10W	YMIX	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R74			RK73FB2A473J	CHIP R	47K	J	1/10W		
R75			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R76			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R78			RK73FB2A821J	CHIP R	820	J	1/10W		
R79			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R80			RK73FB2A223J	CHIP R	22K	J	1/10W	ET	
⚠ R81			RS14KB3A820J	FL-PROOF RS	82	J	1W		
R82			RK73FB2A272J	CHIP R	2.7K	J	1/10W	ET	
R83			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R85 -87			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R88			RK73FB2A563J	CHIP R	56K	J	1/10W		
R89			RK73FB2A333J	CHIP R	33K	J	1/10W		
R101,102			RK73FB2A102J	CHIP R	1.0K	J	1/10W		6
R101,102			RK73FB2A102J	CHIP R	1.0K	J	1/10W	ETMXIY	5
R103,104			RK73FB2A273J	CHIP R	27K	J	1/10W		6
R103,104			RK73FB2A273J	CHIP R	27K	J	1/10W	ETMXYI	5
R105,106			RK73FB2A101J	CHIP R	100	J	1/10W		6
R105,106			RK73FB2A101J	CHIP R	100	J	1/10W	ETMXIY	5
R115,116			RD14BB2C102J	RD	1.0K	J	1/6W	KP	45
R117,118			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R119,120			RK73FB2A224J	CHIP R	220K	J	1/10W		
R121,122			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R123,124			RK73FB2A224J	CHIP R	220K	J	1/10W		
R125,126			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R127,128			RK73FB2A224J	CHIP R	220K	J	1/10W		
R129,130			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R131,132			RK73FB2A224J	CHIP R	220K	J	1/10W		
R133,134			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R135,136			RK73FB2A224J	CHIP R	220K	J	1/10W		
R137,138			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R139,140			RK73FB2A224J	CHIP R	220K	J	1/10W		
R141,142			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R143,144			RK73FB2A224J	CHIP R	220K	J	1/10W		
R153-156			RK73FB2A224J	CHIP R	220K	J	1/10W		
R159			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R161,162			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R163,164			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R165,166			RK73FB2A183J	CHIP R	18K	J	1/10W		
R167,168			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R169,170			RK73FB2A224J	CHIP R	220K	J	1/10W		
R171,172			RK73FB2A183J	CHIP R	18K	J	1/10W		
R173,174			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R175,176			RK73FB2A104J	CHIP R	100K	J	1/10W		
R177,178			RK73FB2A563J	CHIP R	56K	J	1/10W		
R179			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R180			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R181-184			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R185,186			RK73FB2A563J	CHIP R	56K	J	1/10W		
R187,188			RK73FB2A182J	CHIP R	1.8K	J	1/10W	KPMXI	6
R187,188			RK73FB2A222J	CHIP R	2.2K	J	1/10W	KPMXIY	5
R187,188			RK73FB2A242J	CHIP R	2.4K	J	1/10W	E	6
R187,188			RK73FB2A272J	CHIP R	2.7K	J	1/10W	ET	5
R187,188			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KP	4
R189,190			RS14KB3D120J	FL-PROOF RS	12	J	2W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R191,192			RS14KB3D391J	FL-PROOF RS	390	J	2W		
R199,200			RK73FB2A333J	CHIP R	33K	J	1/10W		
R201,202			RK73FB2A303J	CHIP R	30K	J	1/10W		
R203,204			RK73FB2A113J	CHIP R	11K	J	1/10W	ETMIXY	5
R203,204			RK73FB2A113J	CHIP R	11K	J	1/10W	KP	5
R203,204			RK73FB2A153J	CHIP R	15K	J	1/10W	KP	4
R203,204			RK73FB2A912J	CHIP R	9.1K	J	1/10W		6
R205,206			RK73FB2A471J	CHIP R	470	J	1/10W		
R209,210			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R211,212			RK73FB2A273J	CHIP R	27K	J	1/10W		
R213,214			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R215,216			RK73FB2A224J	CHIP R	220K	J	1/10W		
R217,218			RK73FB2A183J	CHIP R	18K	J	1/10W		
R219,220			RK73EB2B222J	CHIP R	2.2K	J	1/8W		
R221,222			RK73FB2A104J	CHIP R	100K	J	1/10W		
R223,224			RK73FB2A563J	CHIP R	56K	J	1/10W		
R225			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R227-230			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R233,234			RK73FB2A182J	CHIP R	1.8K	J	1/10W	KPMXI	6
R233,234			RK73FB2A222J	CHIP R	2.2K	J	1/10W	KPMXIY	5
R233,234			RK73FB2A242J	CHIP R	2.4K	J	1/10W	E	6
R233,234			RK73FB2A272J	CHIP R	2.7K	J	1/10W	ET	5
R233,234			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KP	4
R235,236			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R243,244			RK73FB2A333J	CHIP R	33K	J	1/10W		
R245,246			RK73FB2A303J	CHIP R	30K	J	1/10W		
R247,248			RK73FB2A113J	CHIP R	11K	J	1/10W	ETMXIY	5
R247,248			RK73FB2A113J	CHIP R	11K	J	1/10W	KP	5
R247,248			RK73FB2A153J	CHIP R	15K	J	1/10W	KP	4
R247,248			RK73FB2A912J	CHIP R	9.1K	J	1/10W		6
R249,250			RK73FB2A471J	CHIP R	470	J	1/10W		
R251			RK73FB2A183J	CHIP R	18K	J	1/10W		
R252			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R253			RK73FB2A224J	CHIP R	220K	J	1/10W		
R254			RK73FB2A183J	CHIP R	18K	J	1/10W		
R256			RK73FB2A104J	CHIP R	100K	J	1/10W		
R257			RK73FB2A563J	CHIP R	56K	J	1/10W		
R259,260			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R262			RK73FB2A182J	CHIP R	1.8K	J	1/10W	KPMXI	6
R262			RK73FB2A222J	CHIP R	2.2K	J	1/10W	KPMXIY	5
R262			RK73FB2A242J	CHIP R	2.4K	J	1/10W	E	6
R262			RK73FB2A272J	CHIP R	2.7K	J	1/10W	ET	5
R262			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KP	4
R263			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R267			RK73FB2A303J	CHIP R	30K	J	1/10W		
R268			RK73FB2A113J	CHIP R	11K	J	1/10W	ETMXIY	5
R268			RK73FB2A113J	CHIP R	11K	J	1/10W	KP	5
R268			RK73FB2A153J	CHIP R	15K	J	1/10W	KP	4
R268			RK73FB2A912J	CHIP R	9.1K	J	1/10W		6
R269			RK73FB2A471J	CHIP R	470	J	1/10W		
R270			RK73FB2A333J	CHIP R	33K	J	1/10W		
R271			RK73FB2A183J	CHIP R	18K	J	1/10W		
R272			RK73FB2A241J	CHIP R	240	J	1/10W		
R273			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R274			RK73FB2A183J	CHIP R	18K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R276			RK73FB2A224J	CHIP R	220K	J	1/10W		
R277			RK73FB2A331J	CHIP R	330	J	1/10W		
R278			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R279,280		✻	R92-1955-05	METAL GLAZE	10K	J	1/4W	KP	4
R279,280		✻	R92-1956-05	METAL GLAZE	33K	J	1/4W		6
R279,280		✻	R92-1956-05	METAL GLAZE	33K	J	1/4W	ETMXIY	5
R279,280		✻	R92-1956-05	METAL GLAZE	33K	J	1/4W	KP	5
⚠ R281		✻	R92-1945-05	METAL GLAZE	1	J	1/4W		
⚠ R283			RK73FB2A1R0J	CHIP R	1	J	1/10W		6
⚠ R283			RK73FB2A1R0J	CHIP R	1	J	1/10W	ETMXIY	5
⚠ R283			RK73FB2A1R0J	CHIP R	1	J	1/10W	KP	5
R284			RK73FB2A104J	CHIP R	100K	J	1/10W	KP	
⚠ R285		✻	R92-1945-05	METAL GLAZE	1	J	1/4W		
R287			RK73EB2B101J	CHIP R	100	J	1/8W		6
R301,302			RK73FB2A513J	CHIP R	51K	J	1/10W		
R303-306			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W		6
R303-306			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W	ETMXIY	5
R303-306			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W	KP	5
R307			RK73EB2B273J	CHIP R	27K	J	1/8W		6
R307			RK73EB2B273J	CHIP R	27K	J	1/8W	ETMXIY	5
R307			RK73EB2B273J	CHIP R	27K	J	1/8W	KP	5
R308			RK73FB2A273J	CHIP R	27K	J	1/10W		6
R308			RK73FB2A273J	CHIP R	27K	J	1/10W	ETMXIY	5
R308			RK73FB2A273J	CHIP R	27K	J	1/10W	KP	5
⚠ R309,310			RK73FB2A1R0J	CHIP R	1	J	1/10W		6
⚠ R309,310			RK73FB2A1R0J	CHIP R	1	J	1/10W	ETMXIY	5
⚠ R309,310			RK73FB2A1R0J	CHIP R	1	J	1/10W	KP	5
R312			RD14NB2E103J	RD	10K	J	1/4W		
R313,314			RK73FB2A473J	CHIP R	47K	J	1/10W		
⚠ R315			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R316			RD14NB2E101J	RD	100	J	1/4W		
⚠ R317			RD14BB2C752J	RD	7.5K	J	1/6W		
R320			RK73FB2A103J	CHIP R	10K	J	1/10W		
R322			RD14BB2C103J	RD	10K	J	1/6W		45
R323			RK73FB2A393J	CHIP R	39K	J	1/10W		
R324,325			RK73FB2A104J	CHIP R	100K	J	1/10W	ET	5
R324,325			RK73FB2A204J	CHIP R	200K	J	1/10W	KP	4
R324,325			RK73FB2A753J	CHIP R	75K	J	1/10W		6
R324,325			RK73FB2A753J	CHIP R	75K	J	1/10W	KPMXIY	5
R326-328			RK73FB2A473J	CHIP R	47K	J	1/10W		
R329			RK73FB2A123J	CHIP R	12K	J	1/10W		
R330			RK73FB2A153J	CHIP R	15K	J	1/10W		
R331			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R332			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R333			RK73FB2A223J	CHIP R	22K	J	1/10W		
R334			RK73FB2A123J	CHIP R	12K	J	1/10W		
R335			RK73FB2A153J	CHIP R	15K	J	1/10W		
R336			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R337			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R339,340			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
⚠ R341		✻	R92-1945-05	METAL GLAZE	1	J	1/4W		
R342-344			RS14KB3A151J	FL-PROOF RS	150	J	1W		
R347			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W		
R349			RS14KB3A4R7J	FL-PROOF RS	4.7	J	1W		
⚠ R350			RK73FB2A1R0J	CHIP R	1	J	1/10W		6
⚠ R350			RK73FB2A1R0J	CHIP R	1	J	1/10W	ETMXIY	5

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⓭

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
⚠ R350			RK73FB2A1R0J	CHIP R	1	J	1/10W	KP	5
R351			RK73FB2A103J	CHIP R	10K	J	1/10W		
R352			RK73FB2A223J	CHIP R	22K	J	1/10W		
R353			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R356-358			RK73FB2A103J	CHIP R	10K	J	1/10W		
R360			RK73FB2A103J	CHIP R	10K	J	1/10W		
R361,362			RK73FB2A473J	CHIP R	47K	J	1/10W		
R363			RK73FB2A361J	CHIP R	360	J	1/10W		
R370			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R371			RK73FB2A563J	CHIP R	56K	J	1/10W		
R372			RK73FB2A104J	CHIP R	100K	J	1/10W		
R373			RK73FB2A361J	CHIP R	360	J	1/10W		
R375			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R377,378			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R384			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R387,388			RK73FB2A473J	CHIP R	47K	J	1/10W		
R389			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R390			RK73FB2A473J	CHIP R	47K	J	1/10W		
R391-394			RK73FB2A470J	CHIP R	47	J	1/10W		
⚠ R397-399			RD14NB2E1R0J	RD	1	J	1/4W		
⚠ R601			RD14NB2E1R0J	RD	1	J	1/4W		
R604			RD14NB2E100J	RD	10	J	1/4W	KP	
R604			RD14NB2E390J	RD	39	J	1/4W	XET	
R609			RD14NB2E151J	RD	150	J	1/4W	ET	
R609			RD14NB2E181J	RD	180	J	1/4W	X	
R609			RD14NB2E2R2J	RD	2.2	J	1/4W	YMI	
R609			RD14NB2E270J	RD	27	J	1/4W	KP	
⚠ R610			R92-1844-05	CARBON	3.3M	J	1/2W	KP	
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR					
W108			R92-0670-05	CHIP R	0 OHM				
W262			R92-0670-05	CHIP R	0 OHM				
W301			R92-0679-05	CHIP R	0 OHM				
W302			R92-0670-05	CHIP R	0 OHM				
W303-306			R92-0679-05	CHIP R	0 OHM				
W307			R92-0670-05	CHIP R	0 OHM				
W308			R92-0679-05	CHIP R	0 OHM				
W309-311			R92-0670-05	CHIP R	0 OHM				
W312			R92-0679-05	CHIP R	0 OHM				
W313			R92-0670-05	CHIP R	0 OHM				
W315-318			R92-0679-05	CHIP R	0 OHM				
W319,320			R92-0670-05	CHIP R	0 OHM				
W321			R92-0679-05	CHIP R	0 OHM				
W322,323			R92-0670-05	CHIP R	0 OHM				
W324-333			R92-0679-05	CHIP R	0 OHM				
W334,335			R92-0670-05	CHIP R	0 OHM			KP	45
W336			R92-0679-05	CHIP R	0 OHM				
W337,338			R92-0670-05	CHIP R	0 OHM			KP	45
W338,339			R92-0670-05	CHIP R	0 OHM				6
W338,339			R92-0670-05	CHIP R	0 OHM			XYEMTI	5
W340,341			R92-0679-05	CHIP R	0 OHM				
W342,343			R92-0670-05	CHIP R	0 OHM				
W506			R92-0679-05	CHIP R	0 OHM				
W513,514			R92-0679-05	CHIP R	0 OHM				
W523			R92-0679-05	CHIP R	0 OHM				
W651-655			R92-0670-05	CHIP R	0 OHM				

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W656			R92-0670-05	CHIP R	0 OHM	YMI	6
W659			R92-0670-05	CHIP R	0 OHM		
W660			R92-0670-05	CHIP R	0 OHM	ET	
W662			R92-0670-05	CHIP R	0 OHM		
W680			R92-0679-05	CHIP R	0 OHM		
W683			R92-0679-05	CHIP R	0 OHM	IX	6
W683			R92-0679-05	CHIP R	0 OHM	KP	5
W683			R92-0679-05	CHIP R	0 OHM	KP	4
W683			R92-0679-05	CHIP R	0 OHM	KPM	6
W683			R92-0679-05	CHIP R	0 OHM	MIX	5
W684,685			R92-0679-05	CHIP R	0 OHM		
K1 ,2			S76-0042-05	MAGNETIC RELAY			
K3			S76-0042-05	MAGNETIC RELAY			6
K4			S76-0042-05	MAGNETIC RELAY			
⚠ K601			S76-0099-05	MAGNETIC RELAY			5
⚠ K601			S76-0099-05	MAGNETIC RELAY		KP	6
⚠ K601		✻	S76-0107-05	MAGNETIC RELAY		EMXI	5
S1			S62-0034-05	SLIDE SWITCH		YMI	
D1			UDZ3.3B	ZENER DIODE			
⚠ D101			D5SBA20F03	DIODE			
⚠ D102			S1ZB20(4101)	DIODE			
⚠ D103			D5SBA20F03	DIODE		KP	56
⚠ D103			D5SBA20F03	DIODE		XY	
⚠ D103			RBV-602LFA	DIODE		ETMI	
D104			HZS16N(B2)	ZENER DIODE			
D104			MTZJ16(B)	ZENER DIODE			
D105			HZS15N(B2)	ZENER DIODE			
D105			MTZJ15(B)	ZENER DIODE			
D106,107			MA111	DIODE			
D108			UDZ3.3B	ZENER DIODE		KP	
D108			UDZ5.6B	ZENER DIODE		ET	5
D108			UDZ6.2B	ZENER DIODE		E	6
D108			UDZ6.8B	ZENER DIODE		KPMXIY	5
D108			UDZ8.2B	ZENER DIODE		KPMXI	6
D109			UDZ10B	ZENER DIODE		E	6
D109			UDZ11B	ZENER DIODE		ET	5
D109			UDZ13B	ZENER DIODE		KP	4
D109			UDZ13B	ZENER DIODE		MI	5
D109			UDZ15B	ZENER DIODE		KPMXI	6
D109			UDZ16B	ZENER DIODE		KPMXIY	5
D110			UDZ10B	ZENER DIODE		ET	5
D110			UDZ13B	ZENER DIODE		E	6
D110			UDZ13B	ZENER DIODE		KP	4
D110			UDZ13B	ZENER DIODE		KPMXIY	5
D110			UDZ16B	ZENER DIODE		KPMXI	6
D111-115			MA111	DIODE			
D117-120			UDZ15B	ZENER DIODE			6
D117-120			UDZ15B	ZENER DIODE		ETMXIY	5
D117-120			UDZ15B	ZENER DIODE		KP	5
D121			MA111	DIODE			
D122			UDZ3.9B	ZENER DIODE			
D123			HSS104A	DIODE			
D123			1SS133	DIODE			

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D124			UDZ3.9B	ZENER DIODE		
D125,126			HSS104A	DIODE	YMI	
D125,126			1SS133	DIODE	YMI	
D127,128			MA111	DIODE		
D129			MA111	DIODE		6
D130			MA111	DIODE		
D201			DA204U	DIODE		
D201			MA143A	DIODE		
D201			1SS302	DIODE		
D203			HZS8.2N(B2)	ZENER DIODE		
D203			MTZJ8.2(B)	ZENER DIODE		
D204			HZS5.1N(B2)	ZENER DIODE		
D204			MTZJ5.1(B)	ZENER DIODE		
D209			HZS3.3N(B2)	ZENER DIODE		
D209			MTZJ3.3(B)	ZENER DIODE		
D211			MA111	DIODE	ET	
D213			MA111	DIODE		
⚠ D601			S1ZB20(4101)	DIODE		
⚠ D602-605			HSS104A	DIODE		
⚠ D602-605			1SS133	DIODE		
D608			HSS104A	DIODE	KP	
D608			RB721Q	DIODE	YMIXET	
D608			1SS133	DIODE	KP	
IC101		✻	STK412-010A	HYBRID IC	ETMXIY	5
IC101		✻	STK412-010A	HYBRID IC	KP	5
⚠ IC101		✻	STK412-020A	HYBRID IC		6
⚠ IC102		✻	STK413-010A	HYBRID IC	ETMXIY	5
⚠ IC102		✻	STK413-010A	HYBRID IC	KP	5
⚠ IC102		✻	STK413-020A	HYBRID IC		6
⚠ IC103		✻	KIA7812API	ANALOGUE IC		
⚠ IC104		✻	KIA7912PI	ANALOGUE IC		
IC105			NJM4580ED	ANALOGUE IC		6
IC105			NJM4580ED	ANALOGUE IC	ETMXIY	5
IC106			NJU7313AM	ANALOGUE IC		
IC107,108			NJM4565M	ANALOGUE IC		
IC109			NJU7313AM	ANALOGUE IC		
IC110-112			NJM4565M	ANALOGUE IC		
⚠ IC113		✻	STK442-090	HYBRID IC	KP	4
⚠ IC114		✻	STK443-090	HYBRID IC	KP	4
IC201			LA1837	ANALOGUE IC	KPET	
IC201			LA1838	ANALOGUE IC	MXIY	
IC202			LC72131	MOS-IC		
⚠ IC601		✻	XC62FP5102P	ANALOGUE IC	KP	
⚠ IC602			BA05T	ANALOGUE IC	YMIXET	
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		
Q1 ,2			2SC2785(F,E)	TRANSISTOR		
Q5 ,6			2SD2351	TRANSISTOR		
Q7 ,8			2SC1740S(Q,R)	TRANSISTOR		
Q7 ,8			2SC2785(F,E)	TRANSISTOR		
Q11 ,12			2SD2351	TRANSISTOR		
Q13 ,14			2SC1740S(Q,R)	TRANSISTOR		
Q13 ,14			2SC2785(F,E)	TRANSISTOR		
Q16			2SD2351	TRANSISTOR		
Q17			2SC2878(B)	TRANSISTOR		
Q51 -53			2SA1576A(R,S)	TRANSISTOR		

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Q51 -53			2SB1218A(Q,R)	TRANSISTOR		
⚠ Q54			2SB1640	TRANSISTOR		
Q113-117			2SC3906K	TRANSISTOR		
Q118			2SA1576A(R,S)	TRANSISTOR		
Q118			2SB1218A(Q,R)	TRANSISTOR		
Q119,120			2SC3906K	TRANSISTOR		
Q121			2SA1576A(R,S)	TRANSISTOR		
Q121			2SB1218A(Q,R)	TRANSISTOR		
Q122,123			2SC1845(F,E)	TRANSISTOR		
Q132			2SC3906K	TRANSISTOR		
Q133			2SB1566	TRANSISTOR		
Q134			2SC1845(F,E)	TRANSISTOR		
Q135			2SA1576A(R,S)	TRANSISTOR		
Q135			2SB1218A(Q,R)	TRANSISTOR		
Q136			UN5219	DIGITAL TRANSISTOR		
⚠ Q137			2SD2395	TRANSISTOR		
⚠ Q138			2SB1640	TRANSISTOR		
Q139,140			DTC123JUA	DIGITAL TRANSISTOR		
Q141			DTC123JUA	DIGITAL TRANSISTOR		6
Q142			DTC123JUA	DIGITAL TRANSISTOR		
Q201			2SC4081(R,S)	TRANSISTOR		
Q201			2SD1819A(Q,R)	TRANSISTOR		
Q202			2SA1576A(R,S)	TRANSISTOR		
Q202			2SB1218A(Q,R)	TRANSISTOR		
Q203,204			2SC4081(R,S)	TRANSISTOR	YMI	
Q203,204			2SD1819A(Q,R)	TRANSISTOR	YMI	
Q206,207			2SC4081(R,S)	TRANSISTOR	ET	
Q206,207			2SD1819A(Q,R)	TRANSISTOR	ET	
Q210,211			2SD1757K	TRANSISTOR		
Q212			2SA1576A(R,S)	TRANSISTOR		
Q212			2SB1218A(Q,R)	TRANSISTOR		
Q214			2SA1576A(R,S)	TRANSISTOR		
Q214			2SB1218A(Q,R)	TRANSISTOR		
Q601			2SC1740S(Q,R)	TRANSISTOR		
Q601			2SC2785(F,E)	TRANSISTOR		
A1			W02-2584-05	FM FRONT-END ASSY	ET	
A1			W02-2622-05	FM FRONT-END ASSY	KPYMIX	

PREAMP (X08-3010-10)

C1 ,2			CE04RW1C100M	ELECTRO	10UF	16WV		
C3			CK73FB1H103K	CHIP C	0.010UF	K		
C4			CC73FCH1H101J	CHIP C	100PF	J		
C5 ,6			CK73FB1H222K	CHIP C	2200PF	K		
C7 ,8			CK73FB1E104K	CHIP C	0.10UF	K		
C9 ,10			CE04RW1C4R7M	ELECTRO	4.7UF	16WV		
C21			CK73FB1E104K	CHIP C	0.10UF	K		
C22			CE04LW1H100M	ELECTRO	10UF	50WV		
C23			CK73FB1H102K	CHIP C	1000PF	K		
C24 ,25			CK73FB1E104K	CHIP C	0.10UF	K		
C26			CK73FF1C105Z	CHIP C	1.0UF	Z		
C27		✻	C91-1597-05	CERAMIC	4.7UF	Z		
C29			CK73FB1H103K	CHIP C	0.010UF	K		
C31			CC73FCH1H220J	CHIP C	22PF	J		
C32			CK73FB1H472K	CHIP C	4700PF	K		
C33			CC73FCH1H220J	CHIP C	22PF	J		

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C34			CK73FB1H472K	CHIP C	4700PF	K		
C35			CK73FF1C105Z	CHIP C	1.0UF	Z		
C41			CC73FCH1H220J	CHIP C	22PF	J		
C42			CC73FCH1H270J	CHIP C	27PF	J		
C43 ,44			CK73FB1H102K	CHIP C	1000PF	K		
C45			CK73FB1H103K	CHIP C	0.010UF	K		
C46			CC73FCH1H220J	CHIP C	22PF	J		
C54 ,55			CC73FCH1H220J	CHIP C	22PF	J		
C56			CK73FB1H102K	CHIP C	1000PF	K		
C57			CK73FF1C105Z	CHIP C	1.0UF	Z		
C58 ,59			CK73FB1H103K	CHIP C	0.010UF	K		
C103,104			CK73FF1C105Z	CHIP C	1.0UF	Z		
C105,106			CK73FB1H182K	CHIP C	1800PF	K		
C107,108			CK73FB1H222K	CHIP C	2200PF	K		
C109			CK73FB1H103K	CHIP C	0.010UF	K		
C110			CC73FCH1H101J	CHIP C	100PF	J		
C121,122			CC73FCH1H220J	CHIP C	22PF	J		
C125			CK73FB1H103K	CHIP C	0.010UF	K		
C126			CC73FCH1H101J	CHIP C	100PF	J		
C141			CC73FCH1H101J	CHIP C	100PF	J		
C151,152			CK73FF1C225Z	CHIP C	2.2UF	Z		
C153,154			CC73FCH1H101J	CHIP C	100PF	J		
C155,156			CK73FF1C105Z	CHIP C	1.0UF	Z		
C157-160			CK73FF1C225Z	CHIP C	2.2UF	Z		
C161,162			CK73FB1H822K	CHIP C	8200PF	K		
C163,164			CK73FB1H153K	CHIP C	0.015UF	K		
C165,166			CK73FB1C334K	CHIP C	0.33UF	K		
C167,168			CK73FF1C225Z	CHIP C	2.2UF	Z		
C169,170			CK73FB1H222K	CHIP C	2200PF	K		
C177-182			CK73FF1C225Z	CHIP C	2.2UF	Z		
C183			CK73FF1C105Z	CHIP C	1.0UF	Z		
C184			CC73FCH1H221J	CHIP C	220PF	J		
C185,186			CK73FB1E104K	CHIP C	0.10UF	K		
C187,188			CK73FB1H102K	CHIP C	1000PF	K		
C203,204			CK73FF1C105Z	CHIP C	1.0UF	Z		
C205,206			CK73FB1H182K	CHIP C	1800PF	K		
C207,208			CK73FB1H222K	CHIP C	2200PF	K		
C209			CK73FB1H103K	CHIP C	0.010UF	K		
C210			CC73FCH1H101J	CHIP C	100PF	J		
C251-256			CC73FCH1H221J	CHIP C	220PF	J		
C303,304			CK73FF1C105Z	CHIP C	1.0UF	Z		
C305			CK73FB1H182K	CHIP C	1800PF	K		
C306			CK73FB1H682K	CHIP C	6800PF	K		
C307			CK73FB1H222K	CHIP C	2200PF	K		
C308			CK73FB1H822K	CHIP C	8200PF	K		
C309			CK73FB1H103K	CHIP C	0.010UF	K		
C310			CC73FCH1H101J	CHIP C	100PF	J		
C401-403			CK73FB1H103K	CHIP C	0.010UF	K		
C411-414			CC73FCH1H220J	CHIP C	22PF	J		
C415-418			CC73FCH1H101J	CHIP C	100PF	J		
C419			CC73FCH1H100D	CHIP C	10PF	D		
C450			CK73FB1H103K	CHIP C	0.010UF	K		
C451			CK73FB1E104K	CHIP C	0.10UF	K		
C452			CE04LW1C222M	ELECTRO	2200UF	16WV		
C453,454			CK73FB1E104K	CHIP C	0.10UF	K		

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C455			CE04LW1A101M	ELECTRO	100UF	10WV		
C456,457			CK73FB1E104K	CHIP C	0.10UF	K		
C458			C92-0047-05	CHIP-ELE	47UF	6.3WV		
C459,460			CK73FB1E104K	CHIP C	0.10UF	K		
C461			CE04LW1E470M	ELECTRO	47UF	25WV		
C501-504			CK73FB1E104K	CHIP C	0.10UF	K		
C505			CK73FB1H102K	CHIP C	1000PF	K		
C506			CC73FCH1H471J	CHIP C	470PF	J		
C507			CK73FB1H103K	CHIP C	0.010UF	K		
C508			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C509			CE04LW1E470M	ELECTRO	47UF	25WV		
C510,511			CK73FB1H103K	CHIP C	0.010UF	K		
C601			CC73FCH1H470J	CHIP C	47PF	J		
C602			CE04LW1E470M	ELECTRO	47UF	25WV		
C603			CC73FCH1H470J	CHIP C	47PF	J		
C604			CE04LW1E470M	ELECTRO	47UF	25WV		
C607			CC73FCH1H470J	CHIP C	47PF	J		
C608			CE04LW1E470M	ELECTRO	47UF	25WV		
C609,610			CC73FCH1H470J	CHIP C	47PF	J		
C621,622			CK73FB1E104K	CHIP C	0.10UF	K		
C751,752			CC73FCH1H221J	CHIP C	220PF	J		
C753			CK73FB1H103K	CHIP C	0.010UF	K		
CN1		✻	E40-8485-05	FLAT CABLE CONNECTOR				
CN2		✻	E40-8484-05	FLAT CABLE CONNECTOR				
CN5			E40-4248-05	PIN ASSY				
CN5			E40-8358-05	PIN ASSY				
J1		✻	E63-1080-05	PIN JACK				
J1		✻	E63-1140-05	PIN JACK				
J2		✻	E63-1139-05	PIN JACK				6
J2		✻	E63-1139-05	PIN JACK			ETMXIY	5
J3		✻	E63-1138-05	PIN JACK			KP	45
J61		✻	E63-1141-05	PIN JACK				
J75			E11-0293-05	MINIATURE PHONE JACK(2P)				
E1 ,2			J11-0809-05	WIRE CLAMPER				
L31 ,32		✻	L92-0511-05	CHIP FERRITE				
L41		✻	L92-0510-05	CHIP FERRITE				
X1		✻	L77-2296-05	CRYSTAL RESONATOR(12.288MHZ)				
CP41-44			R90-0728-05	MULTI-COMP	180 X4			
CP51,52			R90-0714-05	MULTI-COMP	10K X4			
R1 ,2			RK73FB2A562J	CHIP R	5.6K	J 1/10W		
R3 ,4			RK73FB2A101J	CHIP R	100	J 1/10W		
R5 ,6			RK73FB2A471J	CHIP R	470	J 1/10W		
R7 -10			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R11 ,12			RK73FB2A471J	CHIP R	470	J 1/10W		
R20		✻	R92-1946-05	METAL GLAZE	4.7	J 1/4W		
R21			RK73FB2A221J	CHIP R	220	J 1/10W		
R31 ,32			RK73FB2A820J	CHIP R	82	J 1/10W		
R33			RK73FB2A471J	CHIP R	470	J 1/10W		
R34			RD14NB2E4R7J	RD	4.7	J 1/4W		
R41 ,42			RK73FB2A105J	CHIP R	1.0M	J 1/10W		
R43 -45			RK73FB2A221J	CHIP R	220	J 1/10W		
R54			RK73FB2A912J	CHIP R	9.1K	J 1/10W		

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⑲

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R55 -58			RK73FB2A221J	CHIP R	220	J	1/10W		
R59			RK73FB2A101J	CHIP R	100	J	1/10W		
R66			RK73FB2A104J	CHIP R	100K	J	1/10W		
R67			RK73FB2A103J	CHIP R	10K	J	1/10W		
R68			RK73FB2A221J	CHIP R	220	J	1/10W		
R101,102			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R103,104			RK73FB2A104J	CHIP R	100K	J	1/10W		
R107,108			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R109,110			RK73FB2A103J	CHIP R	10K	J	1/10W		
R111,112			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R113,114			RK73FB2A221J	CHIP R	220	J	1/10W		
R121-124			RK73FB2A103J	CHIP R	10K	J	1/10W		
R125,126			RK73FB2A101J	CHIP R	100	J	1/10W		
R127,128			RK73FB2A242J	CHIP R	2.4K	J	1/10W		
R151-156			RK73FB2A100J	CHIP R	10	J	1/10W		
R157,158			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R159-164			RK73FB2A101J	CHIP R	100	J	1/10W		
R165			RK73FB2A751J	CHIP R	750	J	1/10W		
R166			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R168,169			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R170,171			RK73FB2A471J	CHIP R	470	J	1/10W		
R172-175			RK73FB2A473J	CHIP R	47K	J	1/10W		
R201,202			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R203,204			RK73FB2A104J	CHIP R	100K	J	1/10W		
R207,208			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R209,210			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R211,212			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R213,214			RK73FB2A221J	CHIP R	220	J	1/10W		
R215,216			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R217,218			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R251,252			RK73FB2A153J	CHIP R	15K	J	1/10W		
R253,254			RK73FB2A223J	CHIP R	22K	J	1/10W		
R255,256			RK73FB2A103J	CHIP R	10K	J	1/10W		
R257,258			RK73FB2A223J	CHIP R	22K	J	1/10W		
R259,260			RK73FB2A103J	CHIP R	10K	J	1/10W		
R261,262			RK73FB2A223J	CHIP R	22K	J	1/10W		
R301			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R302			RK73FB2A103J	CHIP R	10K	J	1/10W		
R303,304			RK73FB2A104J	CHIP R	100K	J	1/10W		
R307			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R308			RK73FB2A123J	CHIP R	12K	J	1/10W		
R309,310			RK73FB2A103J	CHIP R	10K	J	1/10W		
R311,312			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R313,314			RK73FB2A221J	CHIP R	220	J	1/10W		
R401-406			RK73FB2A471J	CHIP R	470	J	1/10W		
R407			RK73FB2A473J	CHIP R	47K	J	1/10W		
R412			RK73FB2A221J	CHIP R	220	J	1/10W		
R426,427			RK73FB2A221J	CHIP R	220	J	1/10W		
R428			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R431,432			RK73FB2A103J	CHIP R	10K	J	1/10W		
⚠ R450-453		✻	R92-1945-05	METAL GLAZE	1	J	1/4W		
⚠ R454		✻	R92-1946-05	METAL GLAZE	4.7	J	1/4W		
R461,462			RK73FB2A221J	CHIP R	220	J	1/10W		
R463			RK73FB2A473J	CHIP R	47K	J	1/10W		
R464			RK73FB2A472J	CHIP R	4.7K	J	1/10W		

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⑳

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R465			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R501-503			RK73FB2A221J	CHIP R	220	J	1/10W		
R505			RK73FB2A103J	CHIP R	10K	J	1/10W		
R514			RK73FB2A101J	CHIP R	100	J	1/10W		
R515			RK73FB2A221J	CHIP R	220	J	1/10W		
R516			RK73FB2A103J	CHIP R	10K	J	1/10W		
R517			RK73FB2A221J	CHIP R	220	J	1/10W		
R518			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R519			RK73FB2A221J	CHIP R	220	J	1/10W		
R520,521			RK73FB2A103J	CHIP R	10K	J	1/10W		
R522,523			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R524			RK73FB2A333J	CHIP R	33K	J	1/10W		
R527			RK73FB2A103J	CHIP R	10K	J	1/10W		
R601			RK73FB2A820J	CHIP R	82	J	1/10W		
R603			RK73FB2A820J	CHIP R	82	J	1/10W		
R607			RK73FB2A820J	CHIP R	82	J	1/10W		
R609			RK73FB2A104J	CHIP R	100K	J	1/10W		
R610			RK73FB2A680J	CHIP R	68	J	1/10W		
R611			RK73FB2A104J	CHIP R	100K	J	1/10W		
R612			RK73FB2A680J	CHIP R	68	J	1/10W		
R613			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R631,632			RK73FB2A681J	CHIP R	680	J	1/10W		
⚠ R633,634		✻	R92-1954-05	METAL GLAZE	100	J	1/10W		
D1			DAN202U	DIODE					
D1			MA142WK	DIODE					
D1			1SS301	DIODE					
D2			DAP202U	DIODE					
D2			MA142WA	DIODE					
D2			1SS300	DIODE					
D3			DAN202U	DIODE					
D3			MA142WK	DIODE					
D3			1SS301	DIODE					
D6			MA111	DIODE					
⚠ D41			S1ZB20(4072)	DIODE					
D42 ,43			UDZ5.6B	ZENER DIODE					
D44			UDZ3.9B	ZENER DIODE					
D51 ,52			MA111	DIODE					
D61 ,62			UDZ5.6B	ZENER DIODE					
D75 ,76			MA111	DIODE					
D151,152			UDZ7.5B	ZENER DIODE					
IC1			NJM4565MD	IC(OP AMP X2)					
IC2		✻	AK4527-VQ	MOS-IC					
IC4			TC7WU04FU	MOS-IC					
IC5		✻	AK4110-VF	MOS-IC					
IC6		✻	TC7WH123FU	MOS-IC					
IC11			NJM4565MD	IC(OP AMP X2)					
IC12			NJU7311AM	MOS-IC					
IC13			NJM4565MD	IC(OP AMP X2)					
IC14			NJU7311AM	MOS-IC					
IC15			M62446FP	ANALOGUE IC					
IC21			NJM4565MD	IC(OP AMP X2)					
IC31			NJM4565MD	IC(OP AMP X2)					
IC41		✻	TC74HC07AF	MOS-IC					
IC42			TC74HCT7007AF	MOS-IC					

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
⚠ IC45		✻	TA48M05F	ANALOGUE IC				
⚠ IC46			TA48M033F	ANALOGUE IC				
⚠ IC47		✻	TA48M025F	ANALOGUE IC				
IC51		✻	CS493253-CLR	MOS-IC				
IC51		✻	CS493263-CLR	MOS-IC				
IC61			NJM2279M	ANALOGUE IC				
Q1			DTC124EUA	DIGITAL TRANSISTOR				
Q1			UN5212	DIGITAL TRANSISTOR				
⚠ Q15			2SD1664(Q,R)	TRANSISTOR				
⚠ Q15		✻	2SD1963(R,S)-G	TRANSISTOR				
⚠ Q16			2SB1132(Q,R)	TRANSISTOR				
⚠ Q16		✻	2SB1308(Q,R)-G	TRANSISTOR				
Q41			2SC4081(R,S)	TRANSISTOR				
Q41			2SD1819A(Q,R)	TRANSISTOR				
Q42			2SA1576A(R,S)	TRANSISTOR				
Q42			2SB1218A(Q,R)	TRANSISTOR				
⚠ Q61			2SD1664(Q,R)	TRANSISTOR				
⚠ Q61		✻	2SD1963(R,S)-G	TRANSISTOR				
⚠ Q62			2SB1132(Q,R)	TRANSISTOR				
⚠ Q62		✻	2SB1308(Q,R)-G	TRANSISTOR				
A1		✻	W02-2716-05	OPTIC RECEIVING MODULE				
DISPLAY (X14-7120-10)								
D1		✻	B30-2567-05	LED(RED(80) HI-BR)				
D3 -5			B30-2545-05	LED(RED3(160))				
C1			CE04RW0J331M	ELECTRO	330UF	6.3WV	KP	
C1			CE04RW1A101M	ELECTRO	100UF	10WV	ETMXIY	
C2			CK73FB1H103K	CHIP C	0.010UF	K		
C3			CE04RW1H010M	ELECTRO	1.0UF	50WV		
C4 ,5			CE04RW1C100M	ELECTRO	10UF	16WV		
C6		✻	CE04RW0J100M	ELECTRO	10UF	6.3WV		
C7			CK73FB1H103K	CHIP C	0.010UF	K		
C9			CC73FCH1H470J	CHIP C	47PF	J		
C10 -19			CK73FB1H103K	CHIP C	0.010UF	K		
C20 ,21			CK73FB1C104K	CHIP C	0.10UF	K		
C22			CK73FF1C105Z	CHIP C	1.0UF	Z		
C23			CE04RW0J470M	ELECTRO	47UF	6.3WV		
C24			CE04RW0J470M	ELECTRO	47UF	6.3WV	ET	
C25			CK73FB1H103K	CHIP C	0.010UF	K	ET	
C26 ,27			CC73FCH1H270J	CHIP C	27PF	J	ET	
C28			CC73FCH1H561J	CHIP C	560PF	J	ET	
C29			CC73FCH1H271J	CHIP C	270PF	J	ET	
C30		✻	CE04RW1V2R2M	ELECTRO	2.2UF	35WV	ET	
C31			CC73FCH1H101J	CHIP C	100PF	J	ET	
C32			CE04RW0J220M	ELECTRO	22UF	6.3WV		
C33 -35			CC73FCH1H101J	CHIP C	100PF	J		
C36 ,37			CC73FCH1H470J	CHIP C	47PF	J		
C38		✻	CE04RW1H330M	ELECTRO	33UF	50WV		
C39			CK73FB1H103K	CHIP C	0.010UF	K		
C40			C90-1826-05	BACKUP-C	0.047F	5.5WV	YMIXET	
C41			CK73FB1H103K	CHIP C	0.010UF	K	MXI	
C42			CK73FB1H103K	CHIP C	0.010UF	K	MXIY	
C43 ,44			CC73FCH1H101J	CHIP C	100PF	J		
C45 ,46			CC73FCH1H470J	CHIP C	47PF	J		
C47			CC73FCH1H101J	CHIP C	100PF	J		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C48			CC73FCH1H101J	CHIP C	100PF	J	YMI	
C49			CE04RW0J331M	ELECTRO	330UF	6.3WV	KP	
C50			CC73FCH1H101J	CHIP C	100PF	J		
C51		✻	CE04RW1H2R2M	ELECTRO	2.2UF	50WV	YMI	
C52			CK73FB1H103K	CHIP C	0.010UF	K	ET	
C53			CC73FCH1H101J	CHIP C	100PF	J		
C54		✻	CE04RW1H4R7M	ELECTRO	4.7UF	50WV		
C55			CC73FCH1H470J	CHIP C	47PF	J		
C56			CC73FCH1H220J	CHIP C	22PF	J		
C57			CC73FCH1H221J	CHIP C	220PF	J		
C58			CC73FCH1H470J	CHIP C	47PF	J		
C59			CK73FF1C105Z	CHIP C	1.0UF	Z		
C106,107			CC73FCH1H101J	CHIP C	100PF	J		
CN1		✻	E40-8510-05	FLAT CABLE CONNECTOR				
CN2		✻	E40-8504-05	FLAT CABLE CONNECTOR				
CN3			E40-3247-05	PIN ASSY				
CN5			E40-3261-05	PIN ASSY				
J1			E11-0272-05	PHONE JACK				
E5			J11-0808-05	WIRE CLAMPER				
X1		✻	L78-0714-05	RESONATOR	(8MHZ)			
X2			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)			ET	
CP1			R90-0855-05	MULTI-COMP	100KX5	J		
CP2 ,3			R90-0482-05	MULTI-COMP	100KX4	J	1/6W	
CP501			R90-0855-05	MULTI-COMP	100KX5	J		
CP502			R90-0850-05	MULTI-COMP	100KX3	J	1/6W	
R4			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R5			RK73FB2A103J	CHIP R	10K	J	1/10W	
R7			RK73FB2A104J	CHIP R	100K	J	1/10W	
R8			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R11			RK73FB2A223J	CHIP R	22K	J	1/10W	YMI
R12			RK73FB2A331J	CHIP R	330	J	1/10W	
R13 ,14			RK73FB2A104J	CHIP R	100K	J	1/10W	
R15			RK73FB2A331J	CHIP R	330	J	1/10W	
R29			RK73FB2A122J	CHIP R	1.2K	J	1/10W	
R31 -33			RK73FB2A221J	CHIP R	220	J	1/10W	
R36 ,37			RK73FB2A104J	CHIP R	100K	J	1/10W	
R38 -43			RK73FB2A103J	CHIP R	10K	J	1/10W	
R44 -49			RK73FB2A101J	CHIP R	100	J	1/10W	
R50			RK73FB2A272J	CHIP R	2.7K	J	1/10W	
R51			RK73FB2A102J	CHIP R	1.0K	J	1/10W	YMI
R52 ,53			RK73FB2A272J	CHIP R	2.7K	J	1/10W	
R54 ,55			RK73FB2A103J	CHIP R	10K	J	1/10W	YMI
R57 ,58			RK73FB2A223J	CHIP R	22K	J	1/10W	
R59 -63			RK73FB2A104J	CHIP R	100K	J	1/10W	
R64			RK73FB2A101J	CHIP R	100	J	1/10W	
R65 ,66			RK73FB2A103J	CHIP R	10K	J	1/10W	
R67			RD14NB2E222J	RD	2.2K	J	1/4W	YMI
R69 ,70			RK73FB2A103J	CHIP R	10K	J	1/10W	
R71 ,72			RK73FB2A473J	CHIP R	47K	J	1/10W	
R83			RK73FB2A564J	CHIP R	560K	J	1/10W	
R86			RD14NB2E152J	RD	1.5K	J	1/4W	YMI
R98			RK73FB2A104J	CHIP R	100K	J	1/10W	
R107-109			RK73FB2A104J	CHIP R	100K	J	1/10W	

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R110			RK73FB2A1R0J	CHIP R 1	J	1/10W	ET	
R111			RK73FB2A101J	CHIP R 100	J	1/10W	ET	
R112			RK73FB2A473J	CHIP R 47K	J	1/10W	ET	
R113			RK73FB2A101J	CHIP R 100	J	1/10W	ET	
R114			RK73FB2A104J	CHIP R 100K	J	1/10W		
R118			RK73FB2A104J	CHIP R 100K	J	1/10W		
R119-126			RK73FB2A101J	CHIP R 100	J	1/10W		
R127-129			RK73FB2A104J	CHIP R 100K	J	1/10W		
R130			RK73FB2A102J	CHIP R 1.0K	J	1/10W		
R141,142			RK73FB2A104J	CHIP R 100K	J	1/10W		
R143			RK73FB2A101J	CHIP R 100	J	1/10W		
R161,162			RK73FB2A104J	CHIP R 100K	J	1/10W		
R501,502			RK73FB2A104J	CHIP R 100K	J	1/10W		
W503			R92-0679-05	CHIP R 0 OHM				
W505			R92-0679-05	CHIP R 0 OHM			YMI	
W509			R92-0679-05	CHIP R 0 OHM				
W514			R92-0679-05	CHIP R 0 OHM				
S4 -18			S70-0031-05	TACT SWITCH				
⚠ S19			S68-0107-05	PUSH SWITCH			YMIXET	
S1			T99-0602-05	ROTARY ENCODER				
S2		✻	T99-0630-05	ROTARY ENCODER				
D7			HZS6.2N(B2)	ZENER DIODE				
D7			MTZJ6.2(B)	ZENER DIODE				
D8 ,9			RB721Q	DIODE				
D11 ,12			MA111	DIODE				
D13			HSS104A	DIODE			KP	
D13			1SS133	DIODE			KP	
D15 ,16			MA111	DIODE				
D17 -22			HSS104A	DIODE				
D17 -22			1SS133	DIODE				
D24			HSS104A	DIODE			ETX	
D24			1SS133	DIODE			ETX	
D27			HSS104A	DIODE			KP	6
D27			1SS133	DIODE			KP	6
D28			HSS104A	DIODE			ETMXIY	
D28			1SS133	DIODE			ETMXIY	
D29			HSS104A	DIODE			X	
D29			1SS133	DIODE			X	
D30			HSS104A	DIODE			ET	
D30			1SS133	DIODE			ET	
D33			HSS104A	DIODE				
D33			1SS133	DIODE				
D35 ,36			MA111	DIODE			YMI	
ED1		✻	SVA-11MS22	FLUORESCENT INDICATOR TUBE				
IC1		✻	MN101C35DRA	MI-COM IC				
IC2			S-80840ANY	ANALOGUE IC				
⚠ IC3		✻	TA78057F	ANALOGUE IC			KPXET	
IC4			BU1923F	ANALOGUE IC			ET	
IC5			S-80840ANY	ANALOGUE IC			YMI	
⚠ IC6			XC62FP5102P	ANALOGUE IC			YMI	
Q1			2SC4081(R,S)	TRANSISTOR				
Q2			2SA1576A(R,S)	TRANSISTOR				
Q3 -5			2SC4081(R,S)	TRANSISTOR				

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Q6			UN5219	DIGITAL TRANSISTOR		
Q9 -11			UN5219	DIGITAL TRANSISTOR		
Q12 ,13			2SA1576A(R,S)	TRANSISTOR		
Q14			DTA124EUA	DIGITAL TRANSISTOR		
Q14			UN5112	DIGITAL TRANSISTOR		
A1			W02-2625-05	OPTIC RECEIVING MODULE		

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
Y : PX(Far East,Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China(Shanghai)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components .

KRF-V4530D/V5030D/V6030D/VR-405/406/414
PARTS LIST

HOW TO READ THE PARTS LIST

Destination column has the abbreviation for sale country and model.
Alphabets mean the country. Numerals do model.
Example: X means KRF-V5030D-S and KRF-V6030D-S for Australia market.
5 does KRF-V4530D, KRF-5030D, KRF-V5030DE KRF-V5030D-S and VR-405.

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT ABB.	Australia X	Canada P	China C	England T	Europe E	Germany G	Korea H	Malaysia I
KRF-V4530D	5	-	-	-	-	E4	-	-	-
KRF-V5030D	5	-	-	-	T5	E1	-	-	-
KRF-V5030DE	5	-	-	-	-	E2	-	-	-
KRF-V5030D-S	5	X5	-	-	-	E3	-	-	I5
KRF-V6030D	6	-	-	-	-	E6	-	-	-
KRF-V6030DE	6	-	-	-	-	E7	-	-	-
KRF-V6030D-S	6	X6	-	-	-	-	-	-	I6
VR-405	5	-	P5	-	-	-	-	-	-
VR-406	6	-	P6		-	-	-	-	-
VR-414	4	-	P4	-	-	-	-	-	-

MODEL	CNT ABB.	Mexico R	PX/AAFES Y	Russia Q	Scandinavia L	Shanghai V	USA K	Other area M	Other area(M2) M2
KRF-V4530D	5	-	-	-	-	-	-	-	-
KRF-V5030D	5	-	Y5	-	-	-	-	-	-
KRF-V5030DE	5	-	-	-	-	-	-	-	-
KRF-V5030D-S	5	-	-	-	-	-	-	M5	-
KRF-V6030D	6	-	-	-	-	-	-	-	-
KRF-V6030DE	6	-	-	-	-	-	-	-	-
KRF-V6030D-S	6	-	-	-	-	-	-	M6	-
VR-405	5	-	-	-	-	-	K5	-	-
VR-406	6	-	-	-	-	-	K6	-	-
VR-414	4	-	-	-	-	-	K4	-	-

KRF-V4530D/V5030D/V6030D/VR-405/406/414

SPECIFICATIONS

For U.S.A and Canada

AUDIO section (VR-407/406)

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz (VR-407), 40Hz (VR-406) to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W
- CENTER (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W
- SURROUND (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W

Total harmonic distortion ..... 0.055% (1 kHz, 50W, 8 Ω)

Frequency response
- CD ..... 10 Hz ~ 53 kHz, +0 dB, –3.0 dB

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- CD ..... 91 dB

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 27 kΩ
- CD ..... 200 mV / 47 kΩ
- MONITOR IN (VR-406:VIDEO2/MONITOR) ..... 200 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 200 mV / 1 kΩ
- MONITOR OUT (VR-406:VIDEO2/MONITOR) ..... 200 mV / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

AUDIO section (VR-405/414)

Rated power output during STEREO operation

80 watts (VR-405), 50watts (VR-414) per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (40-20kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 80 W + 80 W (VR-405), 50 W + 50 W (VR-414)
- CENTER (40-20kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 80 W (VR-405), 50 W (VR-414)
- SURROUND (40-20kHz, 0.7% T.H.D. at 8 Ω one channel driven) 80 W + 80 W (VR-405), 50 W + 50 W (VR-414)

Total harmonic distortion ..... 0.055% (1 kHz, 40W, 8 Ω)

Frequency response
- CD ..... 10 Hz ~ 53 kHz, +0 dB, –3.0 dB

Signal to noise ratio (IHF'66)
- CD ..... 91 dB

Input sensitivity / impedance
- CD ..... 200 mV / 47 kΩ
- MONITOR IN (VIDEO2/MONITOR) ..... 200 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 200 mV / 1 kΩ
- MONITOR OUT (VIDEO2/MONITOR) ..... 200 mV / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96kHz

Input level / impedance / wave length
- Optical ..... (-15 dBm ~ -21 dBm), 660 nm ±30nm
- Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω
- S VIDEO (VR-407 only)
  - (luminance signal) ..... 1 Vp-p / 75 Ω
  - (chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO)
..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)

50dB quieting sensitivity
- STEREO ..... 31.6 µV (75 Ω)/ 41.2 dBf

Total harmonic distortion (1 kHz)
- MONO ..... 0.6% (65 dBf input)
- STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)
- MONO ..... 75 dB (65 dBf input)
- STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB

Selectivity (±400 kHz) ..... 70 dB

Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 10 kHz step ..... 530 kHz ~ 1,700 kHz

Usable sensitivity (30% mod., S/N 20 dB) ..... 16 µV / (600 µV/m)

Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption (VR-414) ..... 2.3 A
(VR-405) ..... 2.0 A
(VR-407/406) ..... 2.6 A

AC outlet
- SWITCHED ..... (total 150 W, 1.25 A max.)

Dimensions ..... W : 440 mm (17-5/16")
H : 143 mm (5-5/8")
D : 400 mm (15-3/4")

Weight (Net) ..... 7.2 kg (15.8 lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

SPECIFICATIONS

For other countries

AUDIO section (KRF-V7030D/V6030D)

Effective power output during STEREO operation
1kHz,10% T.H.D.,at 8 Ω ..... 140 W + 140 W
Rated power output during STEREO operation

> 100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz (KRF-V6030D) , 20Hz (KRF-V7030D) to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation
FRONT (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 140 W + 140 W
CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 140 W
SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 140 W + 140 W
Total harmonic distortion ..... 0.055% (1 kHz, 50W, 8 Ω)
Frequency response
CD ..... 10 Hz ~ 50 kHz, +0 dB, –3.0 dB
Signal to noise ratio (IHF'66)
PHONO (MM) ..... 75 dB
CD ..... 91 dB
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 27 kΩ
CD ..... 200 mV / 47 kΩ
MONITOR IN (KRF-V6030D:VIDEO2/MONITOR) ..... 200 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 200 mV / 1 kΩ
MONITOR OUT (KRF-V6030D:VIDEO2/MONITOR) ..... 200 mV / 1 kΩ
PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ
Tone control
BASS (For Australia and U.S-Military) ..... ±10 dB (at 100 Hz)
BASS (Other countries) ..... ±10 dB (at 60 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

AUDIO section (KRF-V5030D)

Effective power output during STEREO operation
(1 kHz, 10%, 8Ω) ..... 110 W + 110 W

> 80 watts channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
FRONT (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 110 W + 110 W
CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 110 W
SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 110 W + 110 W
Total harmonic distortion ..... 0.055% (1 kHz, 40W, 8 Ω)
Frequency response
CD ..... 10 Hz ~ 53 kHz, +0 dB, –3.0 dB
Signal to noise ratio (IHF'66)
PHONO (MM) ..... 73 dB
CD ..... 91 dB
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 27 kΩ
CD ..... 200 mV / 47 kΩ
MONITOR IN (VIDEO2/MONITOR) ..... 200 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 200 mV / 1 kΩ
MONITOR OUT (VIDEO2/MONITOR) ..... 200 mV / 1 kΩ
PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ
Tone control
BASS (For Australia and U.S-Military) ..... ±10 dB (at 100 Hz)
BASS (Other countries) ..... ±10 dB (at 60 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length
Optical ..... (-15 dBm ~ -21 dBm), 660 nm ±30nm
Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) ..... 1 Vp-p / 75 Ω
S VIDEO (KRF-V7030D only)
(luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
STEREO ..... 31.6 µV (75 Ω)/ 41.2 dBf
Total harmonic distortion (1 kHz)
MONO ..... 0.6% (65 dBf input)
STEREO ..... 0.7% (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)
MONO ..... 75 dB (65 dBf input)
STEREO ..... 68 dB (65 dBf input)
Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz
Usable sensitivity ..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption
KRF-V5030D ..... 190 W
KRF-V7030D/V6030D ..... 250 W
AC outlet
SWITCHED ..... (total 90 W max.)
Dimensions ..... W : 440 mm
H : 143 mm
D : 400 mm
Weight (Net)(KRF-V7030D/V6030D) ..... 7.4 kg
(Net)(KRF-V5030D) ..... 7.2 kg

Notes
1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V4530D/V5030D/V6030D/VR-405/406/414

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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AUDIO VIDEO SURROUND RECEIVER

KRF-V7030D/V7030D-S
KRF-V8030D/V8030D-S
VR-407/409
SERVICE MANUAL

KENWOOD

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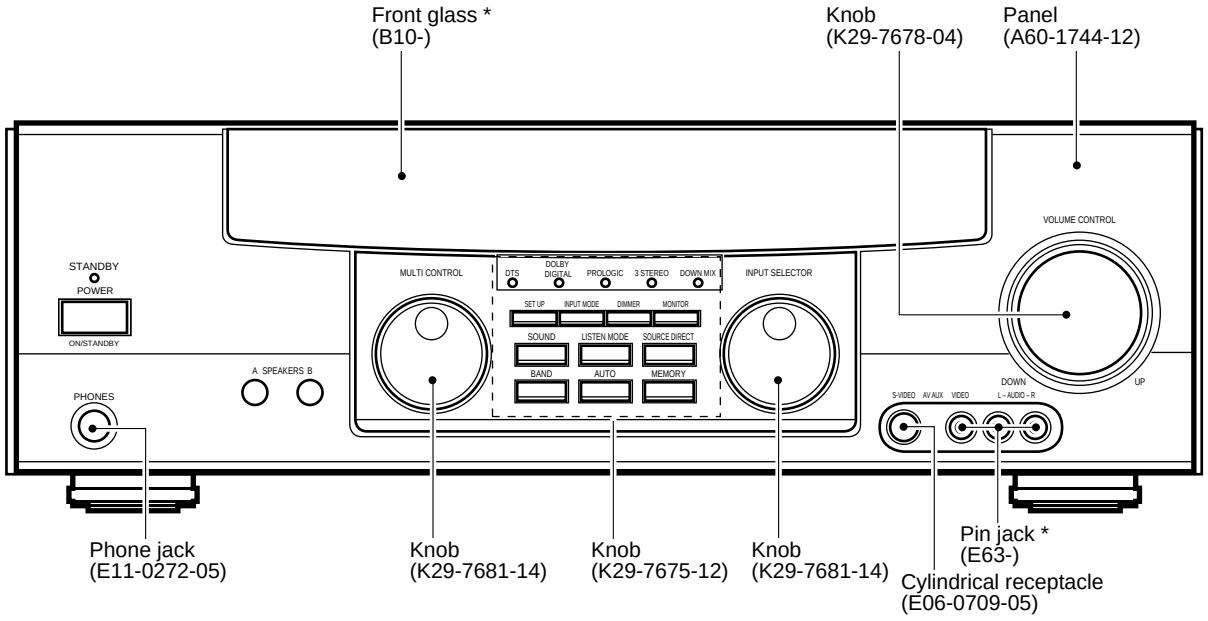

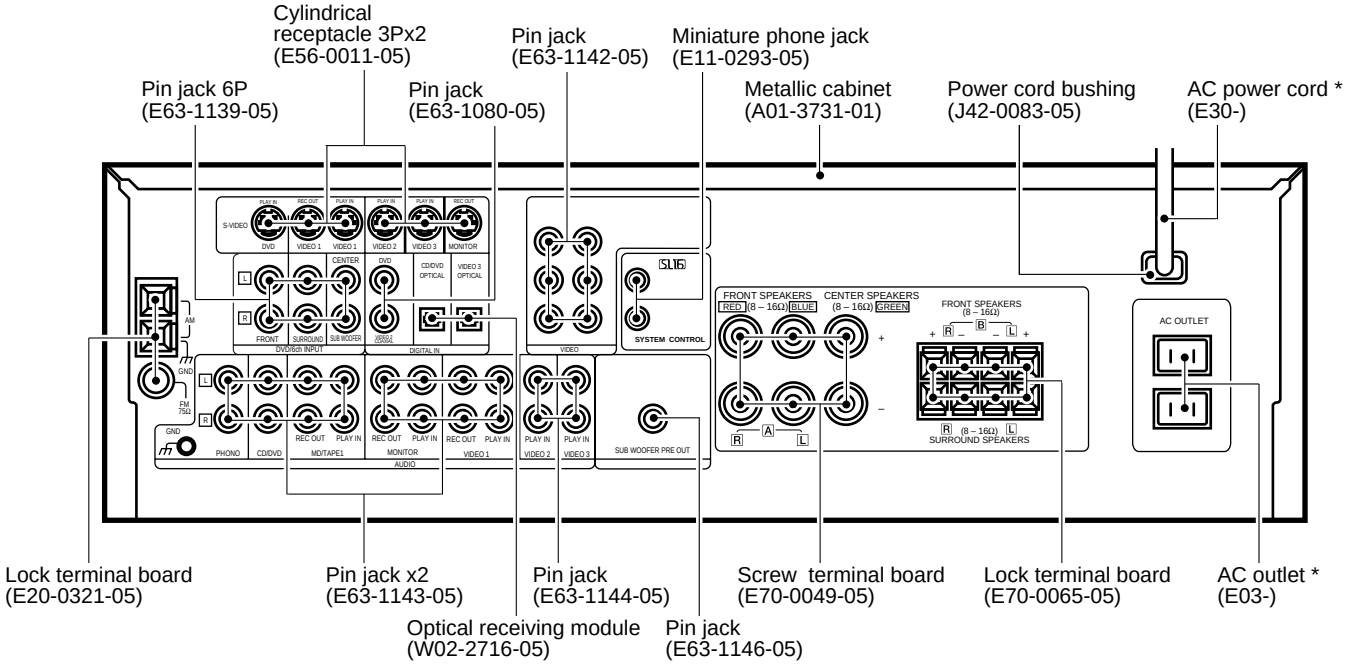

Illustration is KRF-V7030D E type.

*** Refer to parts list on page 39.**

70%

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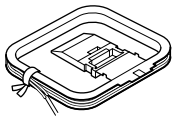
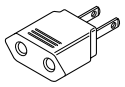
Accessories

FM indoor antenna (1)
(T90-0836-05)

AM loop antenna (1)
(T90-0852-05)

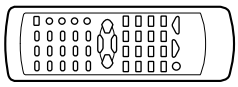


*AC plug adaptor (1)
(E03-0115-05)

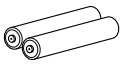


* Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

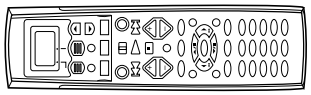
Remote control unit (1)
RC-R0609/R0610



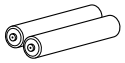
Batteries (R6/AA) (2)



Remote control unit (1)
RC-R0808/0809



Batteries (R6/AA) (2)



Model name vs remote controller

		Remote Controller		
MODEL	***Destinations***	**Parts number**	**Model name**	**Battery cover**
VR-407	K	A70-1330-05	RC-R0609	A09-1178-08
VR-407	P	A70-1330-05	RC-R0609	A09-1178-08
KRF-V7030D	Y	A70-1330-05	RC-R0609	A09-1178-08
KRF-V7030D-S	M	A70-1330-05	RC-R0609	A09-1178-08
KRF-V7030D-S	I	A70-1330-05	RC-R0609	A09-1178-08
KRF-V7030D-S	X	A70-1330-05	RC-R0609	A09-1178-08
VR-407-S	K1	A70-1330-05	RC-R0609	A09-1178-08
VR-409	K	A70-1315-05	RC-R0809	A09-1166-08
VR-409	P	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D	Y	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D-S	M	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D-S	I	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D-S	X	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D	E	A70-1345-05	RC-R0808	A09-1166-08
KRF-V7030D	E1	A70-1331-05	RC-R0610	A09-1178-08
KRF-V7030D	T	A70-1331-05	RC-R0610	A09-1178-08

Cautions

Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

For U.S.A. and Canada

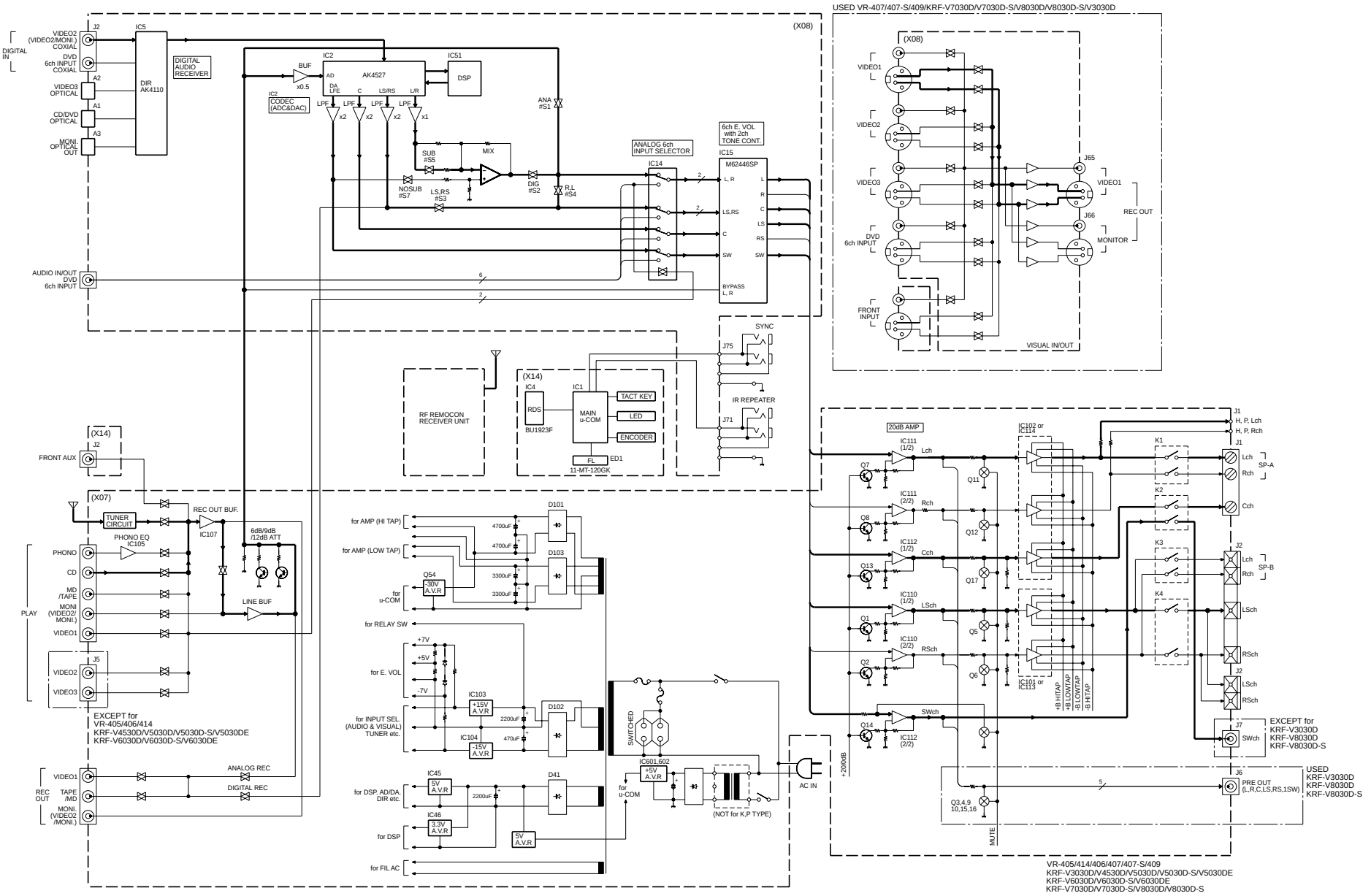
Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

For other countries

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

KRF-V7030D/V8030D/VR-407/409

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

This unit works backup by microprocessor if power is off. The microprocessor carries out the power-off-checking by 1ms. It sets up the initialized data if the backup data is destroyed. Also plug in and out the power cord from the outlet with pressing the power switch for initialization.

1. Backuped Data

A) Amp
- Power on/off
- Selector
- Device preset
- Video output
- Speaker A relay on/off
- Speaker B relay on/off
- Volume level
- Bass, Treble level
- Input level(every inputs)
- Subwoofer yes/no
- Dimmer level
- Monitor no/off
- MD/TAPE mode
- Video2/Monitor mode

b)Surround function
- Listen mode(input:analog/PCM only)
- Speaker setup
- Distance(how far)
- Left, Right, Center level
- Surround level
- Subwoofer level
- Input mode(CD,Video2/3)
- Midnight on/off(CD,Video2,3)

C)Tuner
- Band
- Preset channels
- Receiving frequency
- Auto/manual

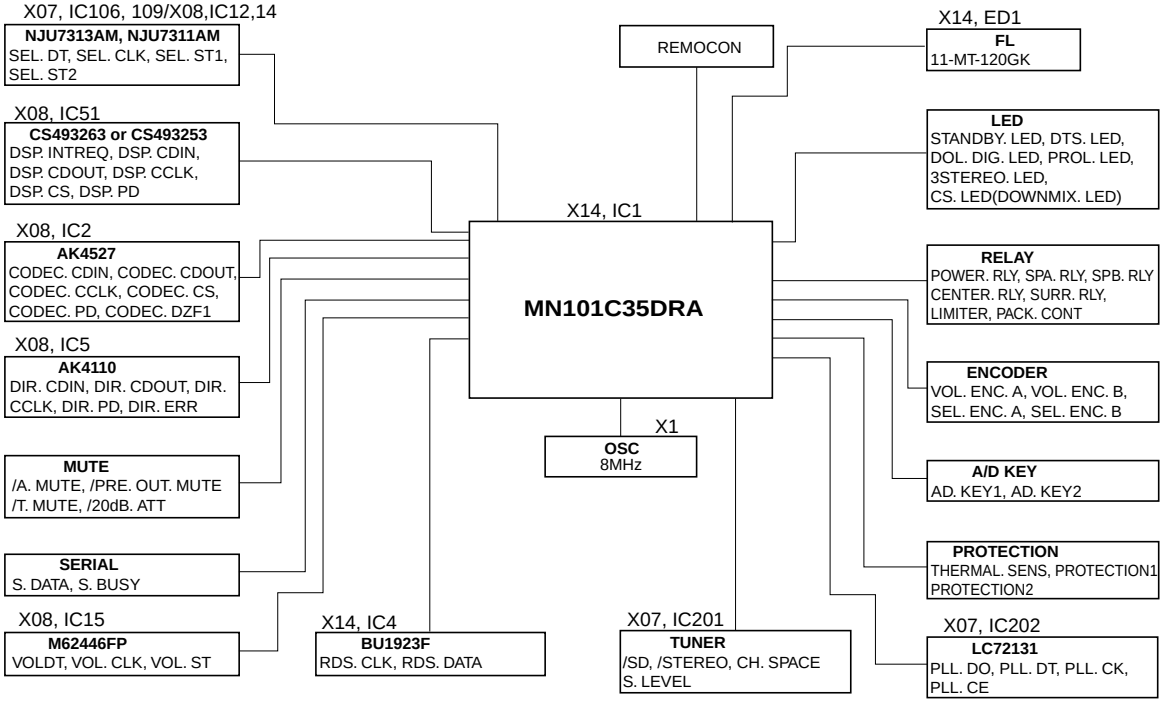
2. Condition by the destination or model

(0 : Pull down, 1 : Pull up)

TYPE	BAND	Reception frequency	Channel space	IF	PLL standard frequency	Diode DSW3	DSW2	DSW1	DSW0
K1 1700	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz				
K2 1610	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	1
	AM	530kHz~1610kHz	10kHz	+450kHz	10kHz				
E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	0	1	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
E3 RDS	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	1	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
M	K2/E1 is switched with only the setting of DSW1 (DSW1 = 0 : K2 type, 1 : E1 type)					0	0	X	1

3. Main microprocessor: X14,IC1(MN101C35DRA)

3-1 Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

3-2 Pin description

Pin No.	Pin Name	I/O	Description
1	S. DATA	I/O	Serial data signal.
2	S.BUS	I/O	Serial busy signal.
3	SEL. ST1	O	Strobe output to input selector (IC106).
4	SEL/VOL/PLL DT	O	Data output to selector,volume and PLL IC.
5	SEL/VOL/PLL CLK	O	Clock output to selector,volume and PLL IC.
6	SEL. ST2	O	Strobe 2 output to input selector (IC109).
7	PLL. CE	O	PLL chip enable.
8	Vdd (+5v)	-	Power supply.
9	OSC OUT	O	8MHz clock output.
10	OSC IN	I	8MHz clock input.
11	Vss	-	Connected to ground.
12	X IN	-	Connected to ground.
13	X OUT	-	No used.
14	MMCD	-	Connected to ground.
15	Vref-	-	Connected to ground.
16,17	KEY2,KEY1	I	Input terminal of key1 and key2.
18	MODEL TYPE	I	Discrimination port of models.
19	TH. SENS	I	No used.
20	PROTECT	I	Detection port of protection signal 1.
21	PROTECT2	I	Detection port of protection signal 2.
22	S.LEVEL/CH SPACE	I	RDS S level and channel space changeover.
23	PLL DO	I	RDS PLL data signal input.
24	Vref+	-	Reference voltage of AD converter..
25	CE	I	Chip enable.
26	RESET	I	Reset signal input.
27	T. MUTE	O	Muting signal output to tuner.
28	RF ST	O	CE signal output of RF receiver IC.
29	RF DT	O	Data signal output of RF receiver IC.
30	RF CLK	O	Clock signal output of RF receiver IC.
31	VOL.ST	O	Latch output of electric volume.
32	DSP INTREQ	I/O	Detection port of DSP INTREQ.
33	DTS DET	I	Detection port of DTS data.
34	REMOCON	I	Remote control signal input.
35	DIR ERR	I	Detection port of DIR error signal.
36	DZF	I	Detection port of CODEC zero input.
37	RDS.CLK	I	RDS clock input.
38	RDS.DAT/CE2	I	RDS data input./u-COM chip enable 2.
39	DSP/DIR/CORDEC CDIN	O	Serial data output.
40	DSP/DIR/CDOUT	I	Serial data input.
41	DSP/DIR/CORDEC CCLK	O	Clock output to IC2, IC5 and IC51on X08.
42	DSP CS	O	DSP chip select.
43	DSP PD	O	DSP power down.
44	DIR CODEC CS	O	CODEC chip select.
45	DIR CODEC PD	O	DIR CODEC power down.
46	NO USE	-	No used.
47-57	1G-11G	O	FL grid control(1G-11G).
58-74	P1-P17	O	FL segment control(P1-P17).
75	PACK CONT.	O	Power pack control.
76	LIMMITER	O	Control port of A class power supply.
77	REAR RE	O	Relay control terminal of surround speaker.
78	CENTER RE	O	Relay control terminal of center speaker.
79	FB RE	O	Relay control terminal of front B speaker.
80	FA RE	O	Relay control terminal of front A speaker.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
81	POWER RE	O	Power relay control.
82	CS5. 1(DOWN MIX)LED	O	Control terminal of CS5.1(DOWN MIX) LED.
83	3 STEREO LED	O	Control terminal of 3 STEREO LED.
84	DTS LED	O	Control terminal of DTS LED.
85	DOLBY DIGITAL LED	O	Control terminal of DOLBY DIGITAL LED.
86	PROLOGIC LED	O	Control terminal of PROLOGIC LED.
87	STANDBY LED	O	Control terminal of STANDBY LED.
88	PRE OUT MUTE	O	Muting control terminal of pre out.
89	20dB ATT	O	20dB attenuation(volume) control terminal.
90	A.MUTE	O	Audio muting signal output.
91	ABOOT	O	EPROM CS.
92	MULTI. ENC CW	I	Multi cont. encoder signal input(clockwise).
93	MULTI. ENC CCW	I	Multi cont. encoder signal input(counterclockwise).
94	SEL. ENC CW	I	Selector encoder signal input(clockwise).
95	SEL. ENC CCW	I	Selector encoder signal input(counterclockwise).
96	VOL. ENC CW	I	Volume encoder signal input(clockwise).
97	VOL. ENC CCW	I	Volume encoder signal input(counterclockwise).
98	STEREO	I	Stereo (tuner) signal input.
99	SD	I	Tuner (SD)detector input.
100	Vpp(-30V)	-	FL power supply(-35V).

3-3 SW VS VOLTAGE

IC1(X14) MICROPROCESSOR:MN101C35DRA

VOLTAGE	AD VALUE	KEY1(#16)	KEY2(#17)
5.0V	255		
		ON/STANDBY	*KEY OFF*
4.5V	230		
		DIMMER	*MEMORY*
4.0V	205		
		INPUT MODE	*AUTO*
3.4V	174		
		SETUP	*BAND*
2.8V	143		
		MONITOR	*SOUND*
2.1V	108		
		SP.B(MUTE)	*LISTEN MODE*
1.4V	72		
		SP.A(SP ON/OFF)	*SOURCE DIRECT*
0.8V	41		
		KEY OFF	*KEY OFF*
0.0V	0		

CIRCUIT DESCRIPTION

3-4 Switch control table

3-4-1 IC106(X07) INPUT/REC OUT SELECTOR:NJU7313AM

				INPUT SELECTOR								*MODE*		*TAPE MON*		*ATT.*		
SW#	**L-ch pin#**	**R-ch pin#**	**Function**	**TUNER**	**PHONO**	**CD**	**TAPE/MD**	**VIDEO1**	**VIDEO2**	**VIDEO3**	**FRONT AUX**	**ANALOG**	**DIGITAL**	**ON**	**OFF**	**ATT1 (-6dB)**	**ATT2 (-3dB)**	**OFF**
S1	27	2	TUNER	1	0	0	0	0	0	0	0							
S2	26	3	PHONO	0	1	0	0	0	0	0	0							
S3	25	4	CD	0	0	1	0	0	0	0	0							
S4	24	5	TAPE/MD	0	0	0	1	0	0	0	0							
S5	22	7	TAPE/MD REC OUT	1	1	1	0	1	1	1	1							
S6	21	8	VIDEO1 REC OUT	1	1	1	1	0	1	1	1							
S7	19	10	ANALOG									1	0					
S8	18	11	DIGITAL									0	1					
IC109(X07) INPUT/ATT. SELECTOR:NJU7313AM																		
S1	27	2	VIDEO1	0	0	0	0	1	0	0	0							
S2	26	3	VIDEO2	0	0	0	0	0	1	0	0							
S3	25	4	VIDEO3	0	0	0	0	0	0	1	0							
S4	24	5	FRONT AUX	0	0	0	0	0	0	0	1							
S5	20	9	LINE											0	1			
S6	21	8	MONITOR											1	0			
S7	19	10	ATT1													1	0	0
S8	18	11	ATT2													0	1	0

3-4-2 ANALOG 6CH INPUT SELECTOR

IC14(X08) ANALOG 6-CH INPUT SELECTOR: NJU7311AM

				SELECTOR		
PORT	**PIN#**	**FUNCTION**		**6-CH INPUT**	**OTHERS**	**TAPE2**
LS1	3	CENTER	OTHERS	0	1	1
LS2	2		6-CH INPUT	1	0	0
LS3	5	SURROUND L-CH	OTHERS	0	1	1
LS4	6		6-CH INPUT	1	0	0
LS5	9	FRONT L-CH	OTHERS	0	1	1
LS6	8		6-CH INPUT	1	0	0
LS7	11	REC OUT SW L FOR 6-CH INPUT		1	0	1
RS1	28	SUBWOOFER	OTHERS	0	1	1
RS2	29		6-CH INPUT	1	0	0
RS3	25	SURROUND R-CH	OTHERS	0	1	1
RS4	26		6-CH INPUT	1	0	0
RS5	22	FRONT R-CH	OTHERS	0	1	1
RS6	23		6-CH INPUT	1	0	0
RS7	20	REC OUT SW R FOR 6-CH INPUT		1	0	1

3-4-3 CONFIGURATION SELECTOR

IC12(X08) CONFIGURATION SELECTOR: NJU7311AM

				MODE		*OUTPUT*		*CONFIGURATION*	
SW#	**L-ch pin#**	**R-ch pin#**	**Function**	**SURROUND**	**STEREO**	**DSP**	**ANALOG**	**SW OFF**	**SW ON**
S1	2	29	SURROUND	1	0				
S2	3	28	STEREO	0	1				
S3	5	26	DIGITAL			1	0		
S4	6	25	ANALOG			0	1		
S5									
S6									
S7		11/20	CONFIG.					1	0

CIRCUIT DESCRIPTION

3-4-4 DESTINATION

		VR-409					*VR-407*				*VR-406*				*VR-405/VR-414*			
		KRF-V8030D					*KRF-V7030D*				*KRF-V6030D*				*KRF-V5030D*			
PORT#	**PORT NAME**	**K/P**	**E/T**	**M/V/II/ Y**	**X**	**J**	**K/P**	**E/T**	**M/V/II/ Y**	**X**	**K/P**	**E/T**	**M/V/ I/Y**	**X**	**K/P**	**E/T**	**M/V/ I/Y**	**X**
67	D25	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
66	D26	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
65	D27	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0
64	D28	0	1	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1
63	D29	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	1
62	D30	0	1	0	0	1	0	1	0	0	0	1	0	0	0	1	0	0

3-4-5 Listen Mode

Mode	DTS	Dolby Digital	Pro Logic	3 Stereo	DSP	CS	Stereo
DTS	yes						yes
Dolby Digital (no2-ch)		yes					yes
Dolby Digital (2-ch)			yes	yes			yes
Pro Logic			yes	yes			yes
PCM			yes	yes	yes	yes	yes

Note: Auto Mode function is not change after setting listen mode

3-4-6 MODEL vs FEATURE

Function	KRF-V3030D	VR-409	VR-407	VR-406 (except K,P)	VR-406(K,P)	VR-405 (except K,P)	VR-405(K,P)
DTS	yes	yes	yes	no	no	no	no
CS	yes	yes	no	no	no	no	no
6ch input	yes	yes	yes	yes	yes	yes	no
Speaker B	yes	yes	yes	yes	yes	mute	mute
Multi Control	Encoder	Encoder	Encoder	Tact	Tact	Tact	Tact
Monitor	yes(on/off)	yes(on/off)	yes(on/off)	VIDEO2/MONI	VIDEO2/MONI	VIDEO2/MONI	VIDEO2/MONI
AV AUX	yes	yes	yes	no	AUX	no	AUX
PHONO	yes	yes	yes	yes	no	yes	no
Remocon	RF	Preset	Preset	Normal	Normal	Normal	Normal
Diode SW	D1	D2	D3	D4	D5	D6	D7

CIRCUIT DESCRIPTION

3-4-7 Speaker Setup

Subwoofer	yes								
Front SP.	Large								
Center SP.	Large			Normal			no		
Surround SP.	Large	Normal	no	-	Normal(yes)	no	-	Normal(yes)	no
Center Mode (Pro Logic)	Wide	Wide	-	-	Normal	-	-	Phantom	-

Subwoofer	yes								
Front SP.	Normal								
Center SP.	-			Normal(yes)			no		
Surround SP.	-	-	-	-	Normal(yes)	no	-	Normal(yes)	no
Center Mode (Pro Logic)	-	-	-	-	Normal	-	-	Phantom	-

Subwoofer	no								
Front SP.	Large								
Center SP.	Large			Normal			no		
Surround SP.	Large	Normal	no	-	Normal(yes)	no	-	Normal(yes)	no
Center Mode (Pro Logic)	Wide	Wide	-	-	Normal	-	-	Phantom	-

4. Test mode specification

1. How to set up the test mode.

Test mode	How to set up.
Normal test mode	BAND key+AC-ON

2. How to cancel the test mode.
   - TEST MODE is initialized by cutting off the power supply.
   - Power off is initialization can't be set up. Power off cancels only the test mode.
3. How to set up the initialization of the set.
   An initialization movement is done, and FL indication is erased when AC is turned on with pushing POWER key of set.
4. A key movement during the all LCDs lighting.

4-1 A setup of Rf receiving frequency one touch. (only VR-410)

Operation key	DISPLAY	Function
SOUND key	Normal indication	RF frequency indication is outputted together in the FL indication when the establishment of the RF receiving frequency is made 411.3MHz. (test mode is not cancel it.)
LISTEN MODE key	Normal indication	RF frequency indication is outputted together in the FL indication when the establishment of the RF receiving frequency is made 414.3MHz. (test mode is not cancel it.)
SOURCE DIRECT key	Normal indication	RF frequency indication is outputted together in the FL indication when the establishment of the RF receiving frequency is made 417.3MHz. (test mode is not cancel it.)

CIRCUIT DESCRIPTION

4-2 S LEVEL indication(only E/T TYPE)

Operation key	DISPLAY	Function
MEMORY key Cyclic function	**ATT_ON_HEX DATA** ↓ The signal level of tuner	RF ATT ON
	ATT_ON_HEX DATA ↓ The signal level of tuner	RF ATT OFF
	Normal indication	Normal function

4-3 CHANNEL SPACE SW(50kHz/100kHz) indication(only M/C/Y/I/V TYPE)

When SPEAKERS A key is pushed, it is checked, and the condition of CHANNEL SPACE SW of the TUNER circuit board is indicated with EON of the FL indication and TI.VOL.
(It is made to indication of CHANNEL SPACE SW at that time at the time of POWER supply on in FL)

Operation key	DISPLAY	Function
SPEAKERS B key Cyclic function	It turns on EON indication.	When CHANNEL SPACE SW is 50kHz,it turns on EON.
	It turns on TI.VOL indication.	When CHANNEL SPACE SW is 100kHz, it turns on TI.VOL.

5. TEST TONE easy function

The key movement when selector is DVD.

Operation key	DISPLAY	FUNCTION
SPEAKERS A key	Normal indication	TEST TONE ON ← → TEST TONE OFF The speaker output of each ch is mode one second.

6. A release of TEST MODE

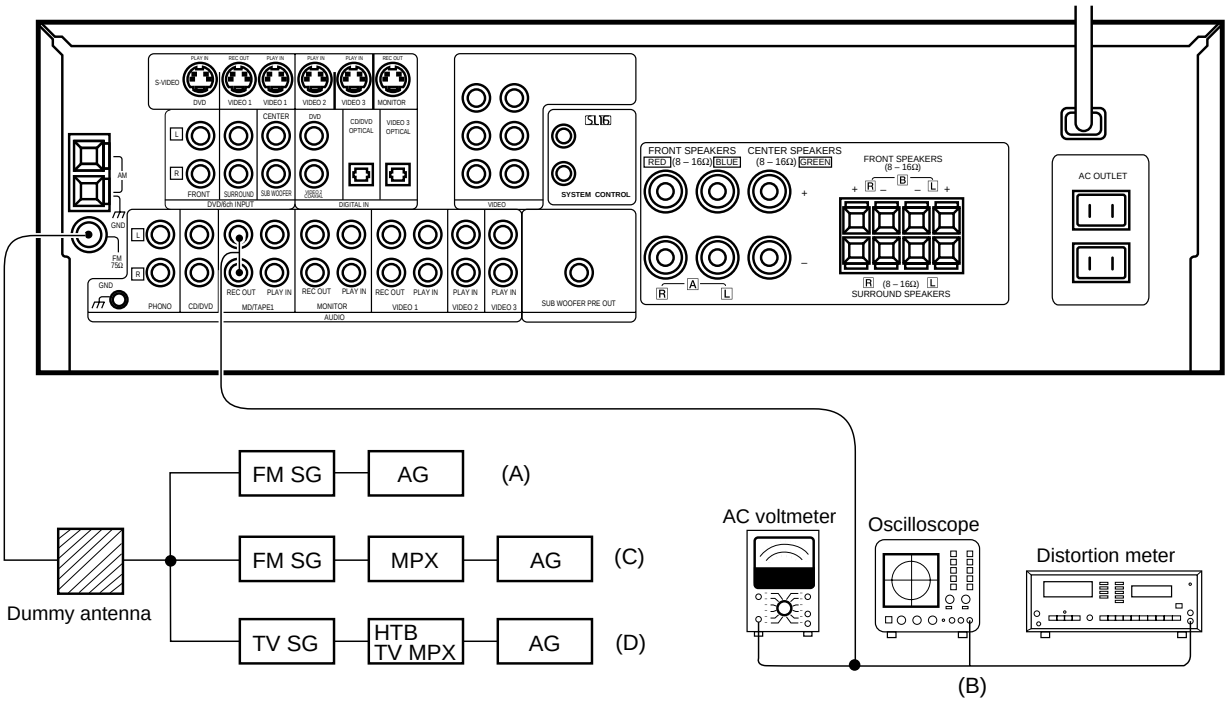
The Key movement when selector is DVD.

Operation key	DISPLAY	FUNCTION
SPEAKERS B key	Normal indication	TEST MODE is canceled. It doesn't need to initialization.

ADJUSTMENT

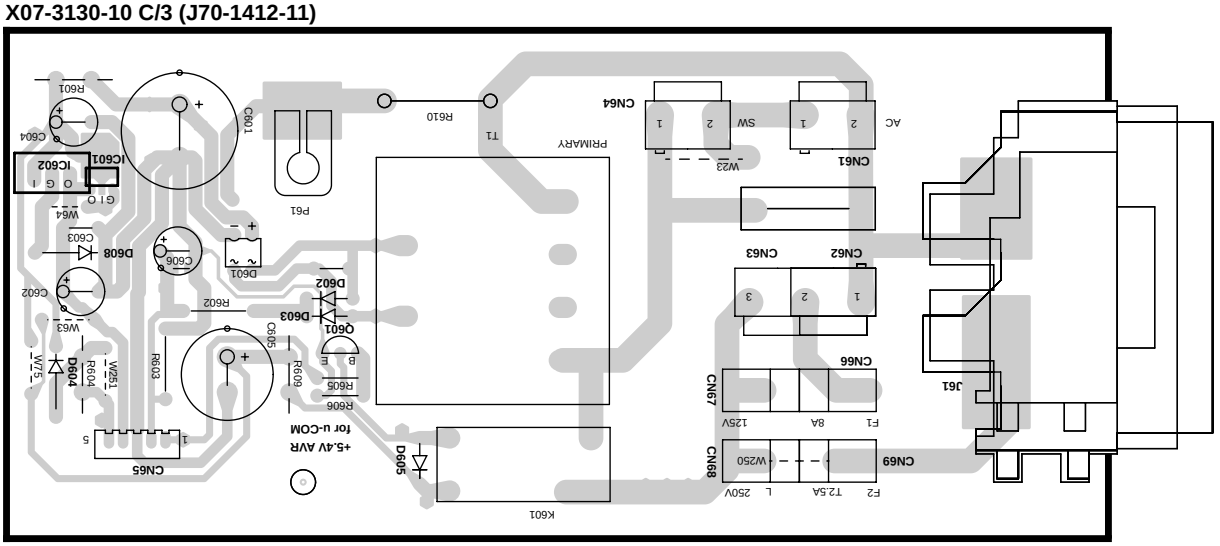
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION : EXCEPT E,T type SELECTOR : FM							
1	DISCRIMINATOR (K,P only)	(A) 98.0MHz 1kHz, ±75kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	98.0MHz	L4 (X07)	0V	
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±75kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
FM SECTION : E,T type only SELECTOR : FM ※Adjust NO.1 and NO.2 repeat.							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	MONO 98.0MHz	L4 (X07)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X07)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (FRONT END : A1)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	

SYSTEM CONNECTIONS

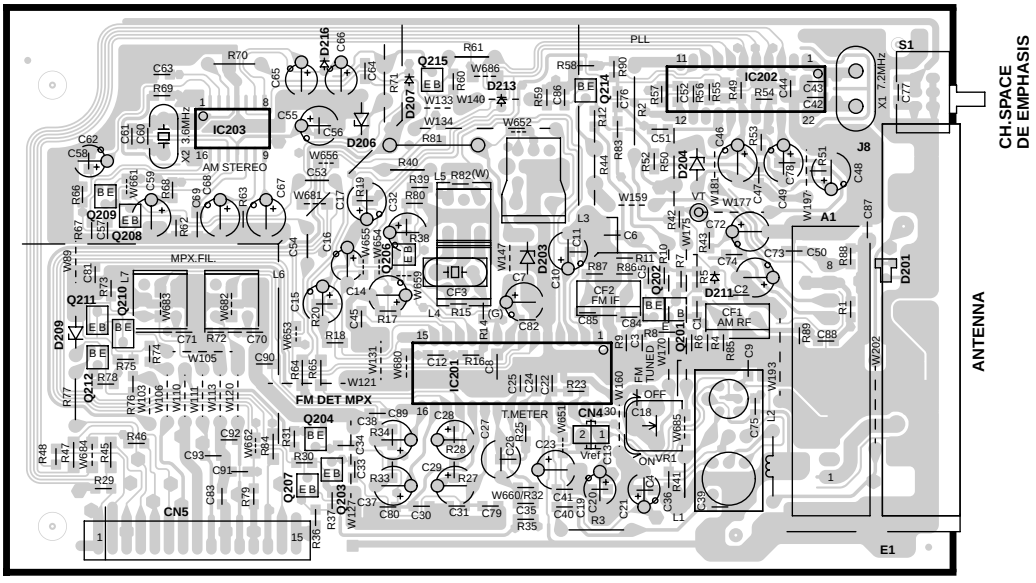


PC BOARD (Component side view)

X07-3120-10 C/3 (J70-1362-11)
X07-3130-10 C/3 (J70-1412-11)

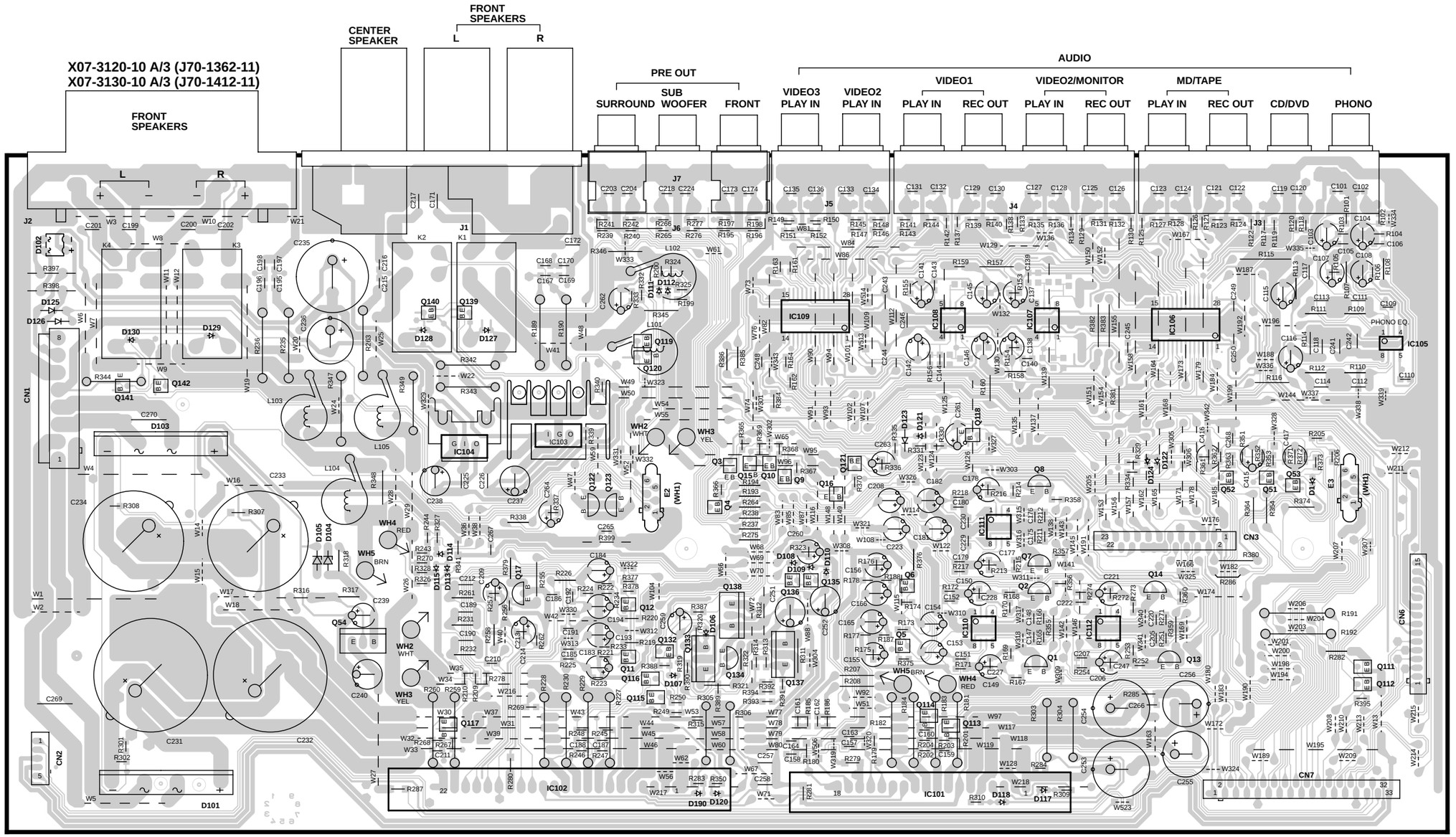


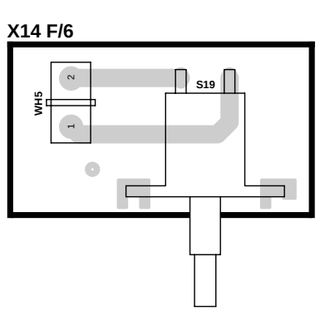
X07 B/3

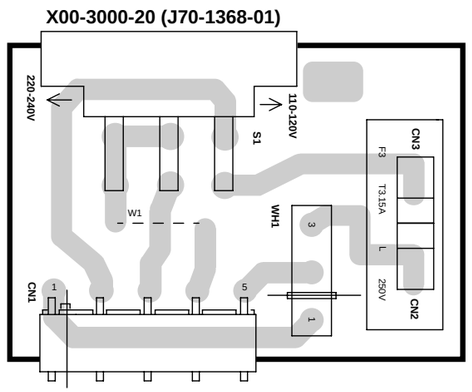


Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

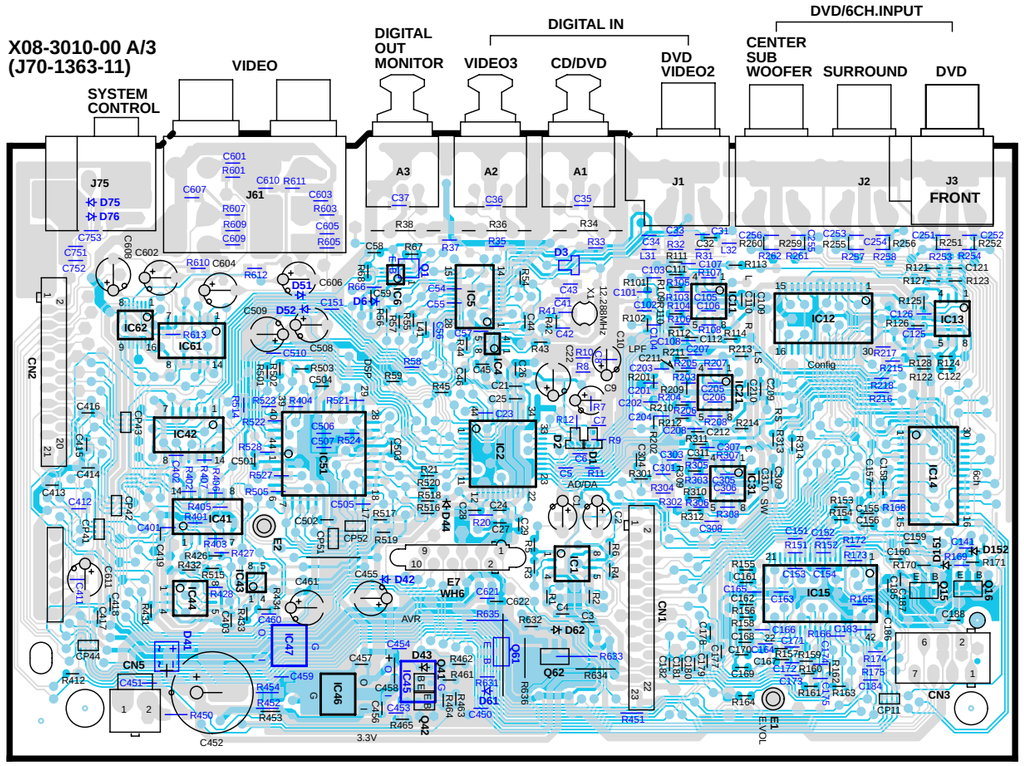


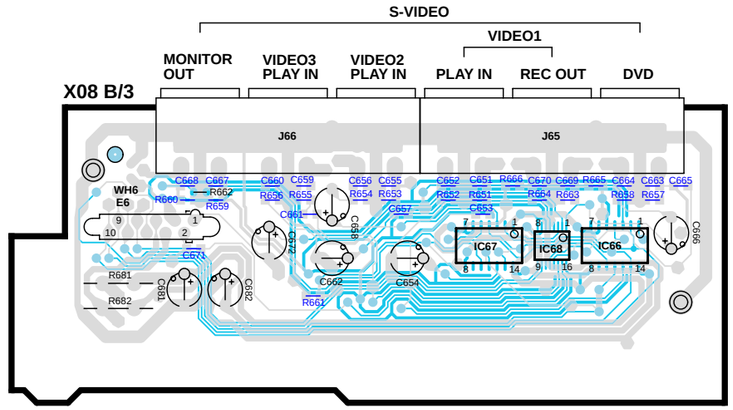


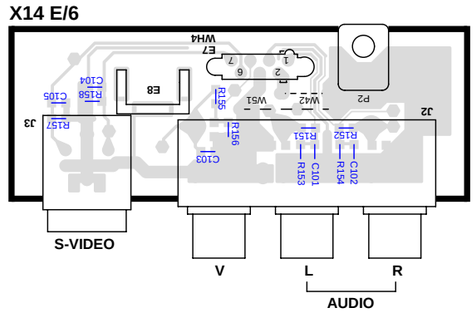


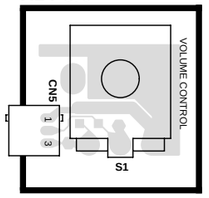
Refer to the schematic diagram for the value of resistors and capacitors.

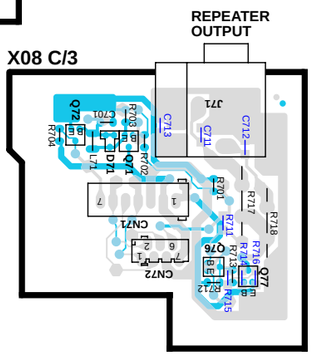
PC BOARD(Component side view)

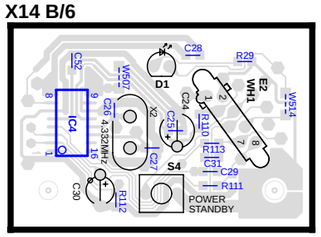


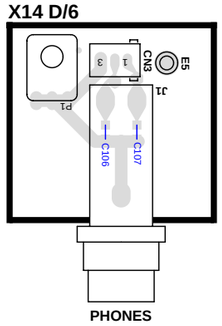


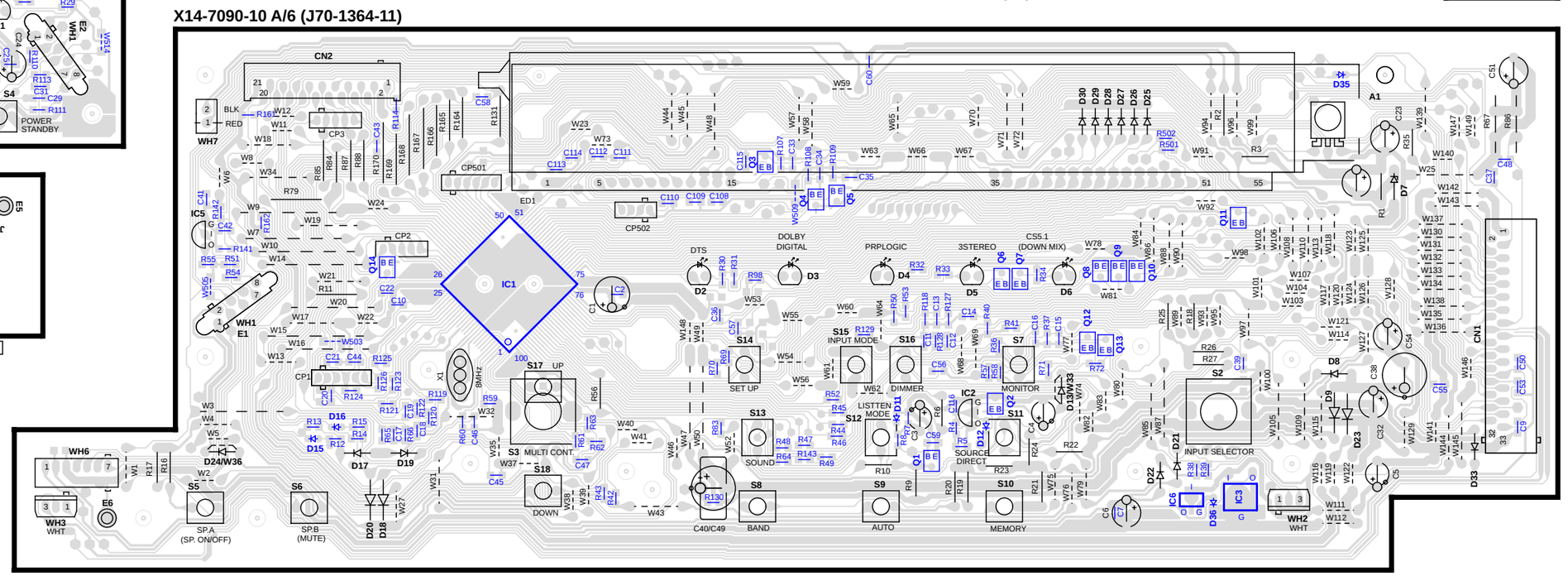












Refer to the schematic diagram for the value of resistors and capacitors.

TUNER UNIT (X07-31XX-XX) (B/3)

(K,P,M,I,X,Y) TYPE
A1 (W02-2622-05) FM FRONT-END

FET : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-3 : HVU202 or 1T362

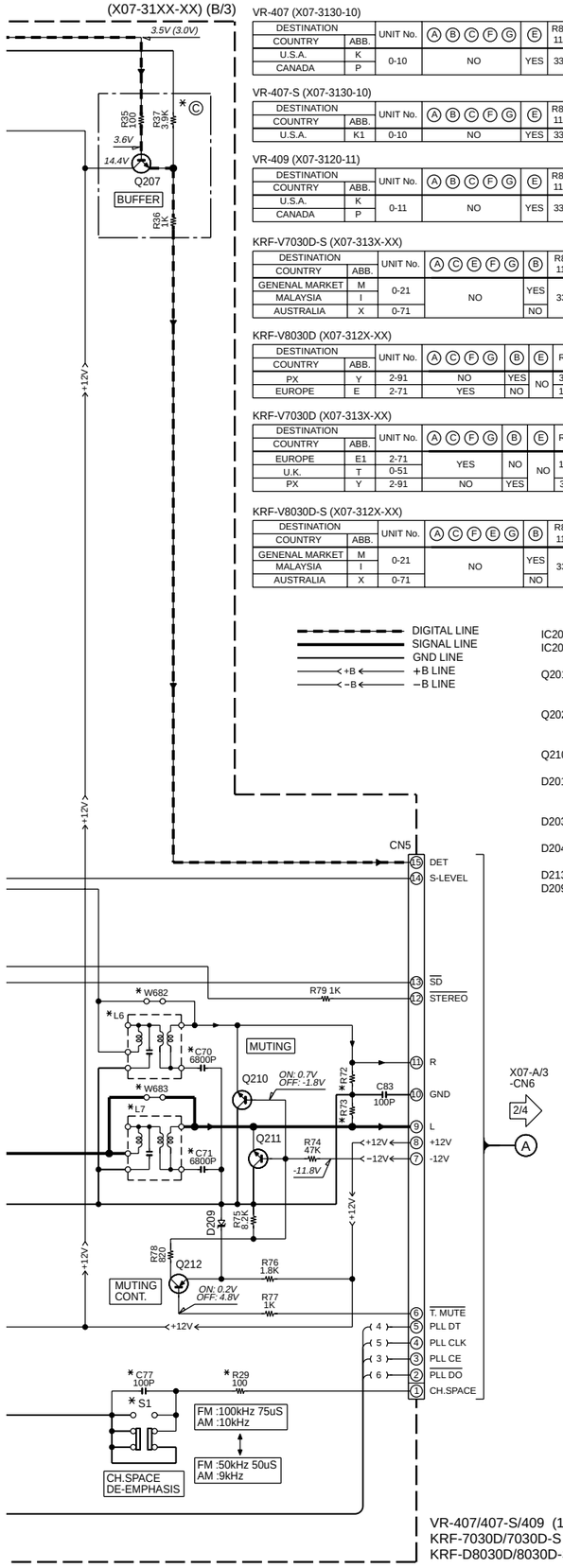
(E,T) TYPE
A1 (W02-2584-05) FM FRONT-END

FET1 : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-4 : SVC220 or KV1440

(J) TYPE
A1 (W02-2621-05) FM FRONT-END

FET : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-3 : HVU202 or 1T363
D4 : HSU277 or 1SS356

IC201
IC202



VR-407 (X07-3130-10)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓕ Ⓖ	Ⓔ	R8, 11	R14	R15	R23	R25	R27, 28	R29	R32	R72, 73	C4	C8,9,13,70 71,77,79,80	C25	C26	C30, 31	C35,74, 82,89,90	CF1,2	CF3	IC201	L6,7	CN4	W656, 660	W682, 683	S1	E1
COUNTRY	ABB.																											
U.S.A.	K	0-10	NO	YES	33	100	4.7K	9.1K	16K	6.8K	NO	YES	15K	330P	NO	470P	0.022	0.033	YES	L72-0596 (MS2)	NO	LA1837	NO	YES	NO	YES	NO	F10-1129
CANADA	P																											

VR-407-S (X07-3130-10)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓕ Ⓖ	Ⓔ	R8, 11	R14	R15	R23	R25	R27, 28	R29	R32	R72, 73	C4	C8,9,13,70 71,77,79,80	C25	C26	C30, 31	C35,74, 82,89,90	CF1,2	CF3	IC201	L6,7	CN4	W656, 660	W682, 683	S1	E1
COUNTRY	ABB.																											
U.S.A.	K1	0-10	NO	YES	33	100	4.7K	9.1K	16K	6.8K	NO	YES	15K	330P	NO	470P	0.022	0.033	YES	L72-0596 (MS2)	NO	LA1837	NO	YES	NO	YES	NO	F10-1129

VR-409 (X07-3120-11)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓕ Ⓖ	Ⓔ	R8, 11	R14	R15	R23	R25	R27, 28	R29	R32	R72, 73	C4	C8,9,13,70 71,77,79,80	C25	C26	C30, 31	C35,74, 82,89,90	CF1,2	CF3	IC201	L6,7	CN4	W656, 660	W682, 683	S1	E1
COUNTRY	ABB.																											
U.S.A.	K	0-11	NO	YES	33	100	4.7K	9.1K	16K	6.8K	NO	YES	15K	330P	NO	470P	0.022	0.033	YES	L72-0596 (MS2)	NO	LA1837	NO	YES	NO	YES	NO	F10-1129
CANADA	P																											

KRF-V7030D-S (X07-313X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓔ Ⓕ Ⓖ	Ⓑ	R8, 11	R14	R15	R23	R25	R27, 28	R29	R32	R72, 73	C4,70,71 79,80,82	C8,9,35, 89,90	C13, 74	C25	C26	C30, 31	C77	CF1,2	CF3	IC201	L6,7	CN4	E656	W660	W682, 683	S1	E1
COUNTRY	ABB.																												
GENENAL MARKET	M	0-21	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	NO	YES	NO	470P	0.022	0.022	YES	L72-0531 (MA5)	YES	LA1838	NO	NO	YES	NO	YES	YES	F10-1129
MALAYSIA	I																												
AUSTRALIA	X	0-71		NO							NO									NO					NO			NO	

KRF-V8030D (X07-312X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ Ⓖ	Ⓑ	Ⓔ	R8	R11	R14	R15	R23	R25	R27, 28	R29, 32	R72, 73	C4	C8,9,35, 77,89,90	C13, 74	C25	C26	C30, 31	C70,71 79,80,82	CF1,2	CF3	IC201	L6,7	CN4	W656,682, 683	W660	S1	E1
COUNTRY	ABB.																												
PX	Y	2-91	NO	YES	NO	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	NO	YES	NO	470P	0.022	0.022	NO	L72-0531 (MA5)	YES	LA1838	NO	NO	YES	NO	YES	F10-1129
EUROPE	E	2-71	YES	NO		10	22	100	33K	15K	27K	4.3K	NO	3.9K	YES	NO		180P	0.018		YES	L72-0536 (MS3)	NO	LA1837	YES	YES	NO	YES	NO	F10-1167

KRF-V7030D (X07-313X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ Ⓖ	Ⓑ	Ⓔ	R8	R11	R14	R15	R23	R25	R27, 28	R29, 32	R72, 73	C4,70,71 79,80,82	C8,9,35, 77,89,90	C13, 74	C25	C26	C30, 31	CF1,2	CF3	IC201	L6,7	CN4	W656,682, 683	W660	S1	E1
COUNTRY	ABB.																												
EUROPE	E1	2-71	YES	NO	NO	10	22	100	33K	15K	27K	4.3K	NO	3.9K	YES	NO	NO	180P	0.018	0.022	L72-0536 (MS3)	NO	LA1837	YES	YES	NO	YES	NO	F10-1167
U.K.	T	0-51																											
PX	Y	2-91	NO	YES		33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	NO	YES		470P	0.022		L72-0531 (MA5)	YES	LA1838	NO	NO	YES	NO	YES	F10-1129

KRF-V8030D-S (X07-312X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ Ⓔ Ⓖ	Ⓑ	R8, 11	R14	R15	R23	R25	R27, 28	R29	R32	R72, 73	C4,70,71 79,80,82	C8,9,35, 89,90	C13, 74	C25	C26	C30, 31	C77	CF1,2	CF3	IC201	L6,7	CN4	W656	W660	W682, 683	S1	E1
COUNTRY	ABB.																												
GENENAL MARKET	M	0-21	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	NO	YES	NO	470P	0.022	0.022	YES	L72-0531 (MA5)	YES	LA1838	NO	NO	YES	NO	YES	YES	F10-1129
MALAYSIA	I																												
AUSTRALIA	X	0-71		NO							NO									NO					NO			NO	

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

IC201 : ⁎
IC202 : LC72131

Q201,203,204,206,207 : 2SD1819A(Q,R) or 2SC4081(R,S)
Q202,212,214 : 2SB1218A(Q,R) or 2SA1576A(R,S)
Q210,211 : 2SD1757K

D201 : DA204U or 1SS302 or MA143A
D203 : MTZJ8.2(B) or HZS8.2N(B2)
D204 : MTZJ5.1(B) or HZS5.1N(B2)
D213 : MA111
D209 : MTZJ3.3(B) or HZS3.3N(B2)

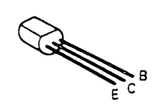
VR-407/407-S/409 (1/4)
KRF-7030D/7030D-S (1/4)
KRF-D8030D/8030D-S (1/4)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

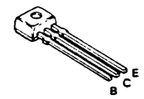
The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

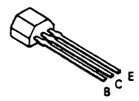
2SC1845
2SC2878



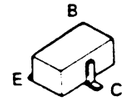
2SC2785



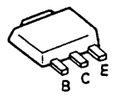
2SC1740S



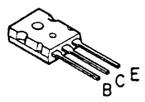
UN5219
2SA1576A
2SB1218A
2SD1819A



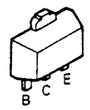
2SB1132
2SB1308



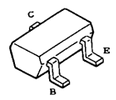
2SD1963



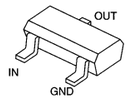
2SD1664



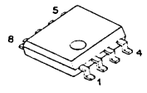
2SC4081
2SD1757K



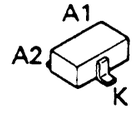
DTA124EUA
DTC123JUA
DTC124EUA



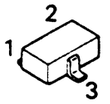
NJM4565M
NJM4565MD
NJM4580ED



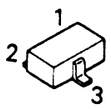
DAN202U



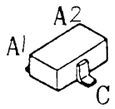
DAP202U
DA204U



MA142WA
MA142WK
UN5212



1SS301



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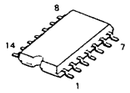
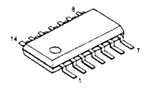


NJM2279M



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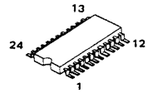
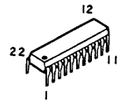
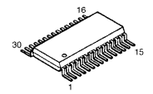


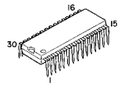
LC72131



NJU7311AM
NJU7313AM



LA1837
LA1838



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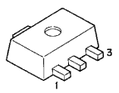
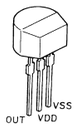


S-80840ANY



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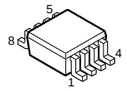
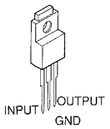
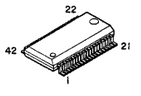


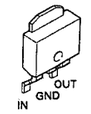
BA05T



M62446FP



TA48M033F



Y05-4010-10

KRF-V7030D/V8030D/VR-407/409

KENWOOD

(X07-31XX-XX) (A/3)

(AUDIO)
MM: 2.5V
J3
Lch 1
PHONO
Rch 2
LINE: 200mV
Lch 3
CD
Rch 4
Lch 5
MD/TAPE REC
Rch 6
Lch 7
MD/TAPE PLAY
Rch 8
J4
Lch 1
MONITOR REC
Rch 2
Lch 3
MONITOR PLAY
Rch 4
Lch 5
VIDEO1 OUT
Rch 6
Lch 7
VIDEO1 IN
Rch 8
J5
Lch 1
VIDEO2 IN
Rch 2
Lch 3
VIDEO3 IN
Rch 4

IC105(1/2)
IC105(2/2)
PHONO EQ AMP
IC106 (BOTTOM VIEW)
INPUT/REC OUT SELECTOR
REC OUT BUFFER
IC107(1/2)
IC107(2/2)
IC108(1/2)
IC108(2/2)
LINE BUFFER
IC109 (BOTTOM VIEW)
INPUT/ ATT SELECTOR
X07-B/3 -CN5 1/4

IC110-112
20dB AMP
IC110(1/2)
IC110(2/2)
IC1,2,7,8,13,14
20dB ATT
IC111(1/2)
IC111(2/2)
IC112(1/2)
IC112(2/2)
LSch
RSch
Lch
Rch
Cch
SWch
Q3,4,9,10,15,16
MUTING (PRE OUT)
Q5,6,11,12,17
MUTING (MAIN OUT)
20dB ATT CONT.
PRE OUT CONT.

IC101
POWER AMP (LS,RSch)
+B AVR
-B AVR
PACK CONT.

CN3
CN6
CN2
CN7

(X07-31XX-XX) (A/3)

POWER AMP (FL,FR,Cch)

IC102

SP.A ON/OFF SW

SP.B ON/OFF SW

Cch/SW ON/OFF SW

LS/RSch ON/OFF SW

PROTECTION 1

PROTECTION 2

+12V AVR

-12V AVR

-30V AVR

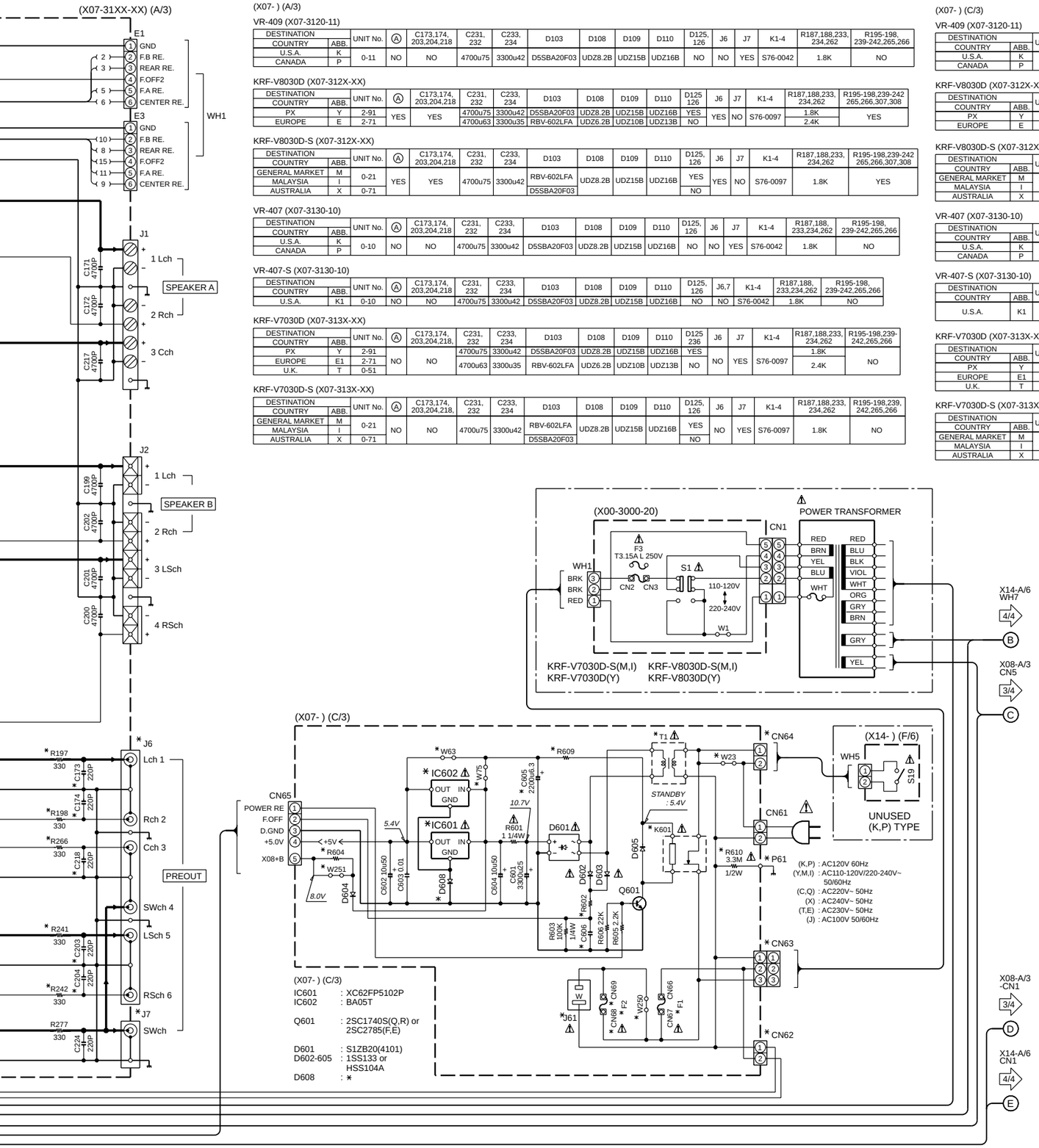
POWER TRANSFORMER

KRF-V7030D-S(X)
KRF-7030D(E,T)
VR-407/407-S(K,P)
KRF-V3030D(J)
KRF-V8030D-S(X)
KRF-V8030D(E)
VR-409(K,P)

(X07-) (A/3)

IC101	: STK412-020A	D1	: UDZ3.3B
IC102	: STK413-020A	D101	: D5SBA20F03
IC103	: KIA7812API	D102	: S1ZB20 (4101)
IC104	: KIA7912PI	D103	: ⁎
IC105	: NJM4580ED	D104	: MTZJ16(B) or HZS16N(B2)
IC106,109	: NJU7313AM	D105	: MTZJ15(B) or HZS15N(B2)
IC107,108,110-12	: NJM4565M	D106,107,111-115,121,127-130	: MA111
Q1,2,7,8,13,14	: 2SC2785(F,E) or 2SC1740S(Q,R)	D108	: ⁎
Q3-6,9-12,15,16	: 2SD2351	D109	: ⁎
Q17	: 2SC2878(B)	D110	: ⁎
Q51-53,118,121,135	: 2SA1576A(R,S) or 2SB1218A(Q,R)	D117-120	: UDZ15B
Q54,138	: 2SB1640	D122,124	: UDZ3.9B
Q113-117,119,120,132	: 2SC3906K	D123,125,126	: 1SS133 or HSS104A
Q122,123,134	: 2SC1845(F,E)		
Q133	: 2SB1566		
Q136	: UN5219		
Q137	: 2SD2395		
Q139-142	: DTC123JUA		

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE



(X07-) (A/3)

VR-409 (X07-3120-11)

DESTINATION		UNIT No.	Ⓐ	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198, 239-242,265,266
COUNTRY	ABB.															
U.S.A.	K	0-11	NO	NO	4700u75	3300u42	D5SBA20F03	UDZ8.2B	UDZ15B	UDZ16B	NO	NO	YES	S76-0042	1.8K	NO
CANADA	P															

KRF-V8030D (X07-312X-XX)

DESTINATION		UNIT No.	Ⓐ	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198,239-242 265,266,307,308
COUNTRY	ABB.															
PX	Y	2-91	YES	YES	4700u75	3300u42	D5SBA20F03	UDZ8.2B	UDZ15B	UDZ16B	YES	YES	NO	S76-0097	1.8K	YES
EUROPE	E	2-71			4700u63	3300u35	RBV-602LFA	UDZ6.2B	UDZ10B	UDZ13B	NO				2.4K	

KRF-V8030D-S (X07-312X-XX)

DESTINATION		UNIT No.	Ⓐ	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198,239-242 265,266,307,308
COUNTRY	ABB.															
GENERAL MARKET	M	0-21	YES	YES	4700u75	3300u42	RBV-602LFA	UDZ8.2B	UDZ15B	UDZ16B	YES	YES	NO	S76-0097	1.8K	YES
MALAYSIA	I						D5SBA20F03				NO					
AUSTRALIA	X	0-71														

VR-407 (X07-3130-10)

DESTINATION		UNIT No.	Ⓐ	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188, 233,234,262	R195-198, 239-242,265,266
COUNTRY	ABB.															
U.S.A.	K	0-10	NO	NO	4700u75	3300u42	D5SBA20F03	UDZ8.2B	UDZ15B	UDZ16B	NO	NO	YES	S76-0042	1.8K	NO
CANADA	P															

VR-407-S (X07-3130-10)

DESTINATION		UNIT No.	Ⓐ	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6,7	K1-4	R187,188, 233,234,262	R195-198, 239-242,265,266
COUNTRY	ABB.														
U.S.A.	K1	0-10	NO	NO	4700u75	3300u42	D5SBA20F03	UDZ8.2B	UDZ15B	UDZ16B	NO	NO	S76-0042	1.8K	NO

KRF-V7030D (X07-313X-XX)

DESTINATION		UNIT No.	Ⓐ	C173,174, 203,204,218,	C231, 232	C233, 234	D103	D108	D109	D110	D125 236	J6	J7	K1-4	R187,188,233, 234,262	R195-198,239- 242,265,266
COUNTRY	ABB.															
PX	Y	2-91	NO	NO	4700u75	3300u42	D5SBA20F03	UDZ8.2B	UDZ15B	UDZ16B	YES	NO	YES	S76-0097	1.8K	NO
EUROPE	E1	2-71									NO				2.4K	
U.K.	T	0-51			4700u63	3300u35	RBV-602LFA	UDZ6.2B	UDZ10B	UDZ13B						

KRF-V7030D-S (X07-313X-XX)

DESTINATION		UNIT No.	Ⓐ	C173,174, 203,204,218,	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198,239, 242,265,266
COUNTRY	ABB.															
GENERAL MARKET	M	0-21	NO	NO	4700u75	3300u42	RBV-602LFA	UDZ8.2B	UDZ15B	UDZ16B	YES	NO	YES	S76-0097	1.8K	NO
MALAYSIA	I						D5SBA20F03				NO					
AUSTRALIA	X	0-71														

(X07-) (C/3)

VR-409 (X07-3120-11)

DESTINATION		UNIT No.	C605	C606	CN62	CN63,64, 68,69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23,75, 250	W63, 251
COUNTRY	ABB.																				
U.S.A.	K	0-11	NO	0.1	YES	NO	1SS133 or HSS104A	F50-0077 8A	NO	YES	NO	E03-0148	S76-0099	YES	30K 1/4W	10 1/4W	27 1/4W	YES	L07-2758 or L07-2761	YES	NO
CANADA	P																				

KRF-V8030D (X07-312X-XX)

DESTINATION		UNIT No.	C605	C606	CN63	CN64	CN62, 68,69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23	W63, 250,251	W75
COUNTRY	ABB.																						
PX	Y	2-91	YES	0.068	YES	YES	NO	RB721Q	F05-3121 T3.15AL	NO	NO	YES	E03-0148	S76-0107	NO	20K 1/4W	NO	2.2 1/4W	NO	L07-2805	NO	YES	NO
EUROPE	E	2-71	NO	0.1	NO		YES			F05-2525 T2.5AL			E03-0149			150K 1/4W	39 1/4W	150 1/4W		L07-2758 or L07-2761		NO	YES

KRF-V8030D-S (X07-312X-XX)

DESTINATION		UNIT No.	C605	C606	CN62	CN63	CN64	CN68, 69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23	W63, W251	W75	W250
COUNTRY	ABB.																								
GENERAL MARKET	M	0-21	YES	0.068	NO	YES	YES	NO	RB721Q	F05-3121 T3.15AL	NO	NO	YES	E03-0149	S76-0107	NO	20K 1/4W	NO	2.2 1/4W	NO	L07-2805	NO	YES	NO	YES
MALAYSIA	I																								
AUSTRALIA	X	0-71	NO	0.1	YES	NO								E03-0325			180K 1/4W	39 1/4W	180 1/4W		L07-2758 or L07-2761		NO	YES	

VR-407 (X07-3130-10)

DESTINATION		UNIT No.	C605	C606	CN62	CN63,64, 68,69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23,75, 250	W63, 251
COUNTRY	ABB.																				
U.S.A.	K	0-10	NO	0.1	YES	NO	1SS133 or HSS104A	F50-0077 8A	NO	YES	NO	E03-0148	S76-0099	YES	30K 1/4W	10 1/4W	27 1/4W	YES	L07-2758 or L07-2761	YES	NO
CANADA	P																				

VR-407-S (X07-3130-10)

DESTINATION		UNIT No.	C605	C606	CN62	CN63,64, 68,69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23,75, 250	W63, 251
COUNTRY	ABB.																				
U.S.A.	K1	0-10	NO	0.1	YES	NO	1SS133 or HSS104A	F50-0077 8A	NO	YES	NO	E03-0148	S76-0099	YES	30K 1/4W	10 1/4W	27 1/4W	YES	L07-2758 or L07-2761	YES	NO

KRF-V7030D (X07-313X-XX)

DESTINATION		UNIT No.	C605	C606	CN62	CN63	CN64	CN68, 69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23	W63, 251	W75	W250
COUNTRY	ABB.																								
PX	Y	2-91	YES	0.068	NO	YES		NO	RB721Q	F05-3121 T3.15AL	NO			E03-0148			20K 1/4W	NO	2.2 1/4W		L07-2805		YES	NO	YES
EUROPE	E1	2-71	NO	0.1	YES	NO	YES	YES			F05-2525 T2.5AL	NO	YES	E03-0149	S76-0107	NO	150K 1/4W	39 1/4W	150 1/4W	NO	L07-2758 or L07-2761	NO	NO	YES	NO
U.K.	T	0-51						NO			NO			E03-0310											YES

KRF-V7030D-S (X07-313X-XX)

DESTINATION		UNIT No.	C605	C606	CN62	CN63	CN64	CN68, 69	D608	F1	F2	IC601	IC602	J61	K601	P61	R602	R604	R609	R610	T1	W23	W63, W251	W75	W250
COUNTRY	ABB.																								
GENERAL MARKET	M	0-21	YES	0.068	NO	YES	YES	NO	RB721Q	F05-3121 T3.15AL	NO	NO	YES	E03-0149	S76-0107	NO	20K 1/4W	NO	2.2 1/4W	NO	L07-2805	NO	YES	NO	YES
MALAYSIA	I																								
AUSTRALIA	X	0-71	NO	0.1	YES	NO								E03-0325			180K 1/4W	39 1/4W	180 1/4W		L07-2758 or L07-2761		NO	YES	

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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VR-407/407-S/409 (2/4)
KRF-V7030D/V7030D-S (2/4)
KRF-V8030D/V8030D-S (2/4)

Y05-4010-10

KRF-V7030D/V8030D/VR-407/409

KENWOOD

(X08-301X-XX) (B/3)

S VIDEO
DVD PLAY IN
REC OUT
VIDEO1
PLAY IN
VIDEO2 PLAY IN
VIDEO3 PLAY IN
MONITOR OUT
J65
J66

S VIDEO SELECTOR
IC68
S VIDEO(C) SELECTOR
IC66
S VIDEO(Y) SELECTOR
IC67
4.45K
6dB AMP
75K DRIVER
5.3dB
75
4.1K
20K
-4.9V
4.9V
-5.1V
5.1V
R682 4.7 1/4W
R681 4.7 1/4W
C682 10u50
C681 10u50
C672 47u25
C671 0.01

E6
C
Y
VGND
-VSS
+VDD
VMUTE
CTLD
CTLC
CTLB
CTLA
WH6

IC66,67 : NJM2279M
IC68 : TC74HC4052AFT or NJU4052BV

(X14-) (E/6)
J2
Lch
Rch
VIDEO
J3
S-VIDEO
W42
W51
P2
E8
E7
AUX L
A.GND
AUX R
V.GND
COMP
C
Y
WH4

to TRANS
2/4
C
X07-A/3 -CN3
2/4
D

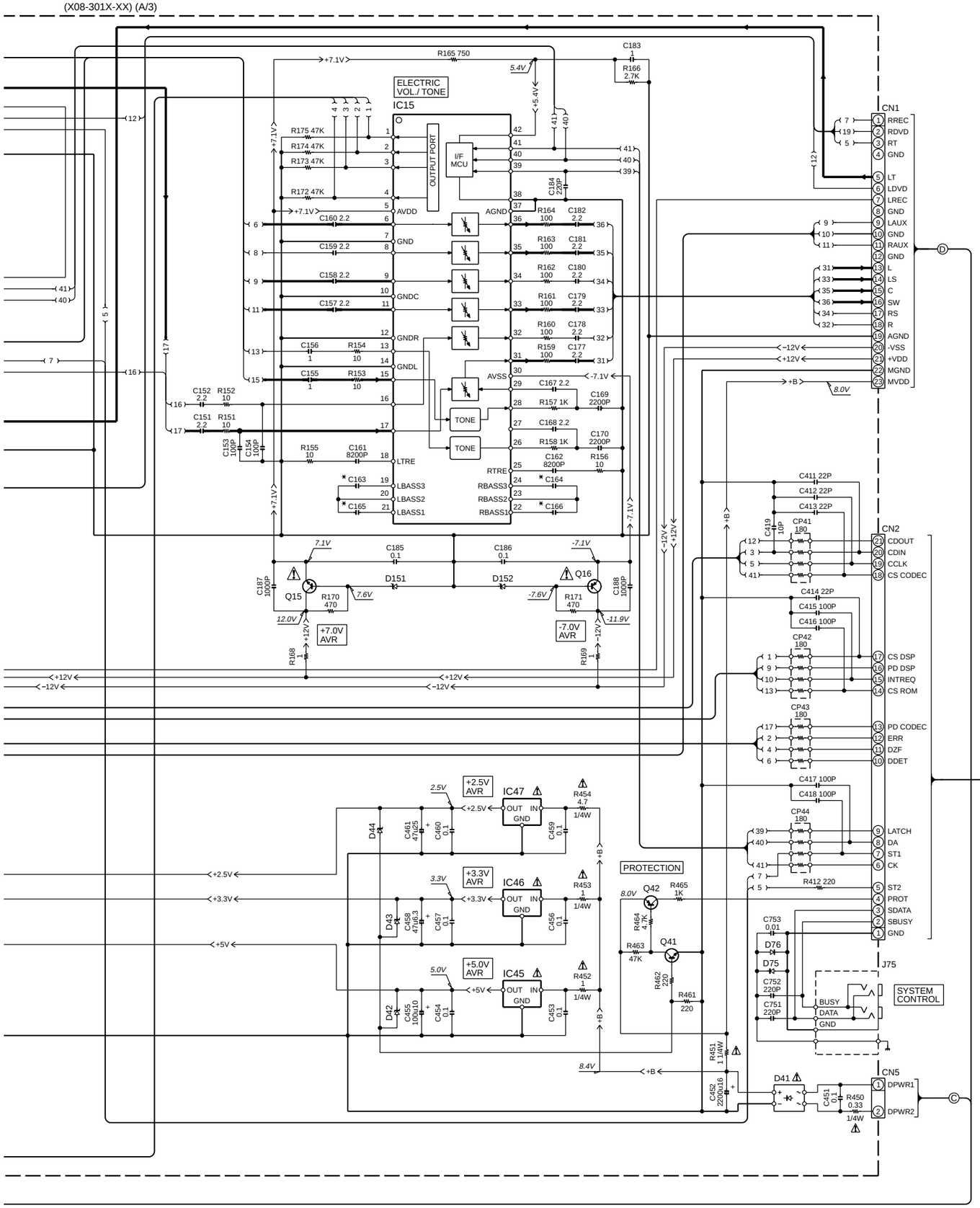
(X08-301X-XX) (A/3)

DVD 6ch INPUT
J2
Lch 1
Rch 2
LSch 3
RSch 4
Cch 5
SWch 6
Lch
LSch
C ch
S.W ch
J1
DVD 1
COAX. INPUT
VIDEO 2
L31
L32
C32 4700P
C34 4700P
A1
CD/DVD
A2
OPT. INPUT
VIDEO3
*A3
OPT. OUTPUT
R34 4.7 1/4W
R33 470
R36 4.7 1/4W
R35 470
*R38 4.7 1/4W
*R37 470
5.0V
3.3V
+3.3V
+5V
INVERTER
IC4
D3
J61
VIDEO3 IN
VIDEO2 IN
VIDEO1 OUT
MONITOR OUT
DVD IN
VIDEO1 IN
D51
D52
C511 0.01
IC51
DSP
AUDATA1
AUDATA0
LRCLK
SCLK
MCLK
VD1
DGND1
XMT958
EMWR
EMOE
SCDIN
SCCLK
EMD7
EMD6
EMD5
EMD4
VD2
DGND2
IC61,62
VIDEO INPUT SELECTOR
IC61
IC62

(X08-301X-XX) (A/3)

DIGITAL AUDIO RECEIVER
DIGITAL SIGNAL IC
RESET
IC2 CODEC (ADC & DAC)
CONFIGURATION SELECTOR
IC14 ANALOG 6ch INPUT SELECTOR
LPF
BUFFER
L.P.F
S.W ch
+5V AVR
-5V AVR
EXTERNAL ROM
DATA SWITCH
LEVEL SHIFTER (5V-3.3V)
LEVEL SHIFTER (3.3V-5V)

(X08-301X-XX) (A/3)



VR-407 (X08-3010-12)

DESTINATION		UNIT	IC43,							
COUNTRY	ABB.	No.	44	R428	R37,38,433, 434,635,636	R633,634	C37	C163, 164	C165, 166	C209	A3
U.S.A.	K	0-12	NO	YES	NO	100 1W	NO	0.015	0.33	YES	NO
CANADA	P										

KRF-V7030D-S (X08-301X-XX)

DESTINATION		UNIT	IC43,								
COUNTRY	ABB.	No.	44	R428	R37,38, 433,434	R633,634	R635,636	C37	C163, 164	C165, 166	C209	A3
GENERAL MARKET	M	0-22	NO	YES	NO	47 1W	YES	NO	0.033	0.47	NO	NO
MALAYSIA	I	0-12				100 1W	NO		0.015	0.33	YES	
AUSTRALIA	X											

KRF-V7030D (X08-3010-12)

DESTINATION		UNIT	IC43,							
COUNTRY	ABB.	No.	44	R428	R37,38,433, 434,635,636	R633,634	C37	C163, 164	C165, 166	C209	A3
PX	Y	0-12	NO	YES	NO	100 1W	NO	0.015	0.33	YES	NO
U.K.	T										
EUROPE	E1										

VR-407-S (X08-3010-12)

DESTINATION		UNIT	IC43,							
COUNTRY	ABB.	No.	44	R428	R37,38,433, 434,635,636	R633,634	C37	C163, 164	C165, 166	C209	A3
U.S.A.	K1	0-12	NO	YES	NO	100 1W	NO	0.015	0.33	YES	NO

VR-409 (X08-3010-13)

DESTINATION		UNIT	IC43,							
COUNTRY	ABB.	No.	44	R37,38, 433,434	R428, 635,636	R633,634	C37	C163, 164	C165, 166	C209	A3
U.S.A.	K	0-13	YES	YES	NO	100 1W	YES	0.015	0.33	YES	YES
CANADA	P										

KRF-V8030D (X08-3010-13)

DESTINATION		UNIT	IC43,							
COUNTRY	ABB.	No.	44	R37,38, 433,434	R428, 635,636	R633,634	C37	C163, 164	C165, 166	C209	A3
PX	Y	0-13	YES	YES	NO	100 1W	YES	0.015	0.33	YES	YES
EUROPE	E										

KRF-V8030D-S (X08-301X-XX)

DESTINATION		UNIT	IC43,								
COUNTRY	ABB.	No.	44	R37,38, 433,434	R428	R633,634	R635,636	C37	C163, 164	C165, 166	C209	A3
GENERAL MARKET	M	0-23	YES	YES	NO	47 1W	YES	YES	0.033	0.47	NO	YES
MALAYSIA	I	0-13				100 1W	NO		0.015	0.33	YES	
AUSTRALIA	X											

IC1,11,13,21,31 : NJM4565MD
IC2 : AK4527-VQ
IC4 : TC7WU04FU
IC5 : AK4110-VF
IC6 : TC7WH123FU
IC12,14 : NJM7311AM
IC15 : M62446FP
IC41 : TC74HC07AF
IC42 : TC74HCT7007AF
IC43 : TC7WH126FU
IC44 : AT25256WS2701
IC45 : TA48M05F
IC46 : TA48M033F
IC47 : TA48M025F
IC51 : CS493263-CLR
IC61 : NJM2279M
IC62 : TC74HC4052AFT or NJU4052BV

Q1 : DTC124EUA or UN5212
Q15,61 : 2SD1664(Q,R) or 2SD1963(R,S)-G
Q16,62 : 2SB1132(Q,R) or 2SB1308(Q,R)-G
Q41 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q42 : 2SA1576A(R,S) or 2SB1218A(Q,R)

D1,3 : 1SS301 or DAN202U or MA142WK
D2 : 1SS300 or DAP202U or MA142WA
D6,51,52,75,76 : MA111
D41 : S1ZB20(4072)
D42,43,61,62 : UDZ5.6B
D44 : UDZ3.9B
D151,152 : UDZ7.5B

SIGNAL LINE
GND LINE
+B LINE
−B LINE

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VR-407/407-S/409 (3/4)
KRF-V7030D/V7030D-S (3/4)
KRF-V8030D/V8030D-S (3/4)

Y05-4010-10

KRF-V7030D/V8030D/VR-407/409

KENWOOD

CC | CD | CE | CF | CG | CH | CI | CJ | CK | CL

1 2 3 4 5 6 7

(X14-7XXX-XX) (A/6)

CN2

DSP/DIR CD OUT 1 — 40
DSP/DIR/CODEC CD IN 2 — 39
DSP/DIR/CODEC CCLK 3 — 41
C58 47P
DIR/CODEC CS 4 — 44
DSP CS 5 — 42
DSP PD 6 — 43
DSP INTREQ 7 — 32
ABOOT 8
DIR/CODEC PD 9 — 45
DIR ERR 10 — 35
DZF 11 — 36
DDET 12 — 33
VOL. ST 13 — 31
SEL/VOL DT 14 — 4
SEL ST1 15 — 3
SEL/VOL CLK 16 — 5
SEL ST2 17 — 6
PROTECT 18 — C37 47P
S. DATA 19 — 1
S. BUSY 20 — 2
D. GND 21

X08-A/3 -CN2 3/4 (F)

CN1

GND(X08) 1
X08 +B 2 — +B
PLOT. 3 — 20
PLOT. 2 4 — 21
TH SENS. 5 — 19
PACK CONT. 6 — 75
LIMITER 7 — 76
REAR RE. 8 — 77
CENTER RE. 9 — 78
F. B RE. 10 — 79
F. A RE. 11 — 80
PRE OUT MUTE 12 — 88
20dB ATT 13 — 89
A. MUTE 14 — 90
F. OFF2 15 — 15
H. P L 16
H. P R 17
SEL ST1 18 — 3 — C47 100P
SEL ST2 19 — 6
SEL./PLL CLK 20 — 5
SEL./PLL DATA 21 — 4
PLL DO 22 — 23 — C9 47P
S. LEVEL/CH. SPACE 23 — 22
PLL CE 24 — 7
T. MUTE 25
DET OUT 26
STEREO 27 — 98 — C55 47P
SD 28 — 99
POWER RE. 29
F. OFF 30
-30V 31 — -30V — -29.7V — D33
5.4V 32 — +5.4V — 5.4V
D.GND 33

X07-A/3 -CN7 2/4 (E)

C48 100P
C53 100P
C50 100P
C23 47u6.3
D33

to TRANS 2/4 (B)

-30V
CP502 100Kx3
CP501 100Kx5
CP3 100Kx4
CP2 100Kx4
CP1 100Kx5

5G 6G 7G 8G 9G — 50 4G, 49 3G, 48 2G, 47 1G

R131 100K — 46 NO USE
R164 220 — 45 DIR/CODEC PD
R165 220 — 44 DIR/CODEC CS
R166 220 — 43 DSP PD
R167 220 — 42 DSP CS
R168 220 — 41 DSP/DIR/CODEC CCLK
R114 100K — R169 220 — 40 DSP/DIR/CDOUT
R170 220 — 39 DSP/DIR CODEC CD IN
R142 100K — 38 RDS.DAT/CE2
R141 100K — 37 RDS. CLK
R88 100 — 36 DZF
R87 100 — 35 DIR ERR
34 REMOCON
R85 100 — 33 DTS DET
R84 100 — 32 DSP INTREQ
C43 100P — R79 10K — 31 VOL. ST
30 RF CLK
29 RF DT
28 RF ST
27 T. MUTE
26 RESET

Q14

REMOTE SENSOR
A1 (OUT 1, GND 2, VCC 3)
C23 47u6.3

25 CE
24 VREF+
23 PLL. DO
22 S. LEVEL/CH SPACE
21 PROTECT2
20 PROTECT
19 TH. SENS.
18 MODEL TYPE
17 KEY2
16 KEY1
15 VREF-
14 MMOD
13 X OUT
12 X IN
11 VSS
10 OSC IN
9 OSC OUT
8 VDD(+5V)
7 PLL. CE
6 SEL. ST2
5 SEL/VOL/PLL CLK
4 SEL/VOL/PLL DT
3 SEL. ST1
2 S. BUS
1 S. DAT

R126 100 — R125 100 — R124 100 — R123 100 — R122 100 — R121 100 — R120 100 — R119 100 — R65 10K — C17 0.01 — R66 10K — C18 0.01
R83 560K — C10 0.01 — C44 100P — R11 22K — C21 0.1 — C20 0.1 — C19 0.01 — C22 1
5.0V

X1 8MHz
4.7V

IC1
(BOTTOM VIEW)
u-COM

R51 100K — R52 100K — 73 — 74 — 75 — PACK CONT.

D30 D29 D28 D26 D25

R14 100K — R15 330 — D16
R13 100K — R12 330 — D15
R63 100K — C45 47P
R62 100K
R61 100K
R60 100K
R59 100K — C46 47P
R162 100K — D20 — D19
R161 100K — D18 — D17

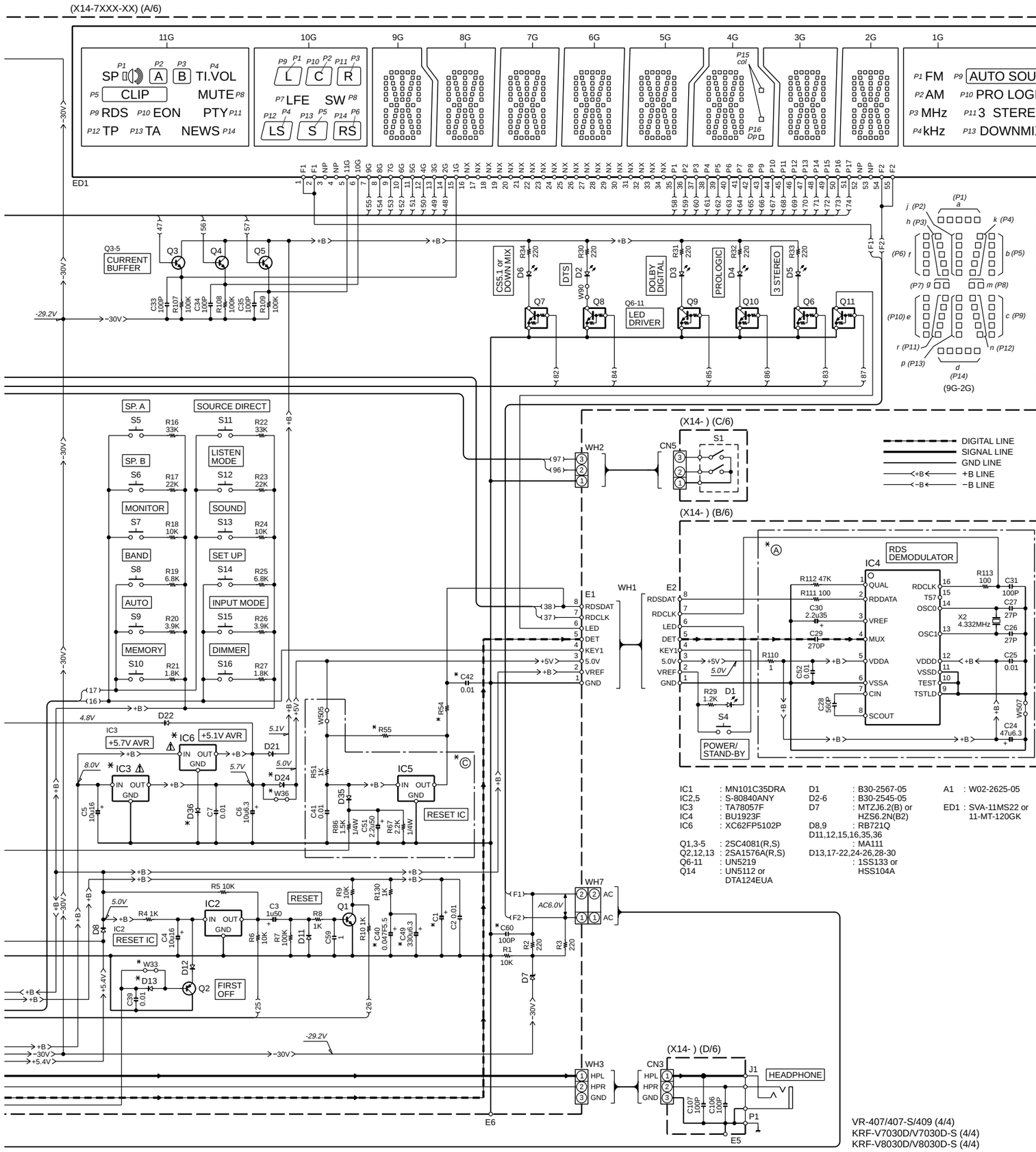
LIMITER 76 — R98 100K
REAR RE. 77 — C36 47P
CENTER RE. 78 — C57 220P
FB. RE 79
FA RE. 80
POWER RE. 81
CS5.1(DOWN MIX)LED 82
3 STEREO LED 83
DTS LED 84
DOLBY DIGITAL LED 85
PROLOGIC LED 86
STANDBY LED 87
PRE OUT MUTE 88 — R53 2.7K
20dB ATT 89 — R52 2.7K
A. MUTE 90 — R56 100 — R50 2.7K
ABOOT 91

MULTI. ENC CW 92 — R45 100 — C13 0.01 — R118 100K — W40 — R42 10K — MULTI CONT. S3
MULTI. ENC CCW 93 — R44 100 — C14 0.01 — R127 100K — W41 — R43 10K — S2
SEL. ENC CW 94 — R46 100 — R129 100K — C11 0.01
SEL. ENC CCW 95 — R47 100 — R128 100K — C12 0.01 — R40 10K — INPUT SELECTOR
VOL. ENC CW 96 — R48 100 — R36 100K — C16 0.01 — R38 10K — R41 10K — R39 10K
VOL. ENC CCW 97 — R49 100 — R37 100K — C15 0.01
STEREO 98 — R143 100
SD 99 — R64 100 — Q12 — Q13 — R57 22K — R71 47K — C56 22P — R58 22K — R72 47K
VPP (-30V) 100 — -29.2V — -30V

* C61 100P
C54 4.7u50
C32 22u6.3
C38 33u50

D9

+B
-30V
+5.4V
5.4V



VR-407/407-S/409 (4/4)
KRF-V7030D/V7030D-S (4/4)
KRF-V8030D/V8030D-S (4/4)

VR-409 (X14-7090-11)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ	C1	C40,42, 48,60,61	C49,	D13, 26	D24,25, 28-30,36	IC3	IC6	R11, 54,55,	S3	S17, 18	W33 36	W40, 41
COUNTRY	ABB.														
U.S.A.	K	0-11	NO	330u6.3	NO	YES	YES	NO	YES	NO	NO	YES	NO	NO	YES
CANADA	P														

KRF-V8030D (X14-709X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C1	C40,	C42, 48,60	C49	C61	D13, 25,29	D24, 30	D26, 28	D36 36	IC3	IC6	R11,	R54, 55	S3	S17, 18	W33, 40,41	W36,
COUNTRY	ABB.																					
PX	Y	0-21	NO	NO	YES	100u10	YES	YES	NO	NO	NO	NO	YES	YES	NO	YES	YES	10K	YES	NO	YES	YES
EUROPE	E	2-71	YES		NO			NO		YES		YES		NO	NO	NO	NO	NO				NO

KRF-V8030D-S (X14-709X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓑ	Ⓒ	C1	C40, 42	C48	C49, 60,61	D13, 25,30	D24	D26, 28	D29	D36 36	IC3	IC6	R11,	R54, 55	S3	S17, 18	W33, 40,41	W36
COUNTRY	ABB.																				
GENERAL MARKET	M	0-21	NO	YES	100u10	YES	YES	NO	NO	NO	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES
MALAYSIA	I			NO			NO			YES		YES	NO	YES	NO	NO	4.7K				NO
AUSTRALIA	X	0-71																			

VR-407 (X14-7090-12)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ	C1	C40,42, 48,60,61	C49,	D13, 25	D24,26, 28-30,36	IC3	IC6	R11, 54,55,	S3	S17, 18	W33, 36	W40, 41
COUNTRY	ABB.														
U.S.A.	K	0-12	NO	330u6.3	NO	YES	YES	NO	YES	NO	NO	YES	NO	NO	YES
CANADA	P														

VR-407-S (X14-7090-12)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ	C1	C40,42, 48,60,61	C49,	D13, 25	D24,26, 28-30,36	IC3	IC6	R11, 54,55,	S3	S17, 18	W33, 36	W40, 41
COUNTRY	ABB.														
U.S.A.	K	0-12	NO	330u6.3	NO	YES	YES	NO	YES	NO	NO	YES	NO	NO	YES

KRF-V7030D (X14-709X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	C1	C40, 108-115	C42, 48	C49, 60	C61	D13, 26,,29	D24, 30	D25, 28	D36	IC3	IC6	R11,	R54, 55	S3	S17, 18	W33, 40,41	W36,
COUNTRY	ABB.																					
PX	Y	0-22	NO	NO	YES	100u10	YES	YES	NO	NO	NO	NO	YES	YES	NO	YES	YES	10K	YES	NO	YES	YES
EUROPE	E1	2-72	YES	NO	NO			NO	NO	YES	NO	YES		NO	NO	NO	NO	NO				NO
U.K.	T																					

KRF-V7030D-S (X14-709X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓑ	Ⓒ	C1	C40,42, 108-115	C48	C49, 60,61	D13, 26,30	D24	D25, 28	D29	D36	IC3	IC6	R11,	R54, 55	S3	S17, 18	W33, 40,41	W36
COUNTRY	ABB.																				
GENERAL MARKET	M	0-22	NO	YES	100u10	YES	YES	NO	NO	NO	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES
MALAYSIA	I			NO			NO			YES		YES	NO	YES	NO	NO	4.7K				NO
AUSTRALIA	X	0-72																			

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

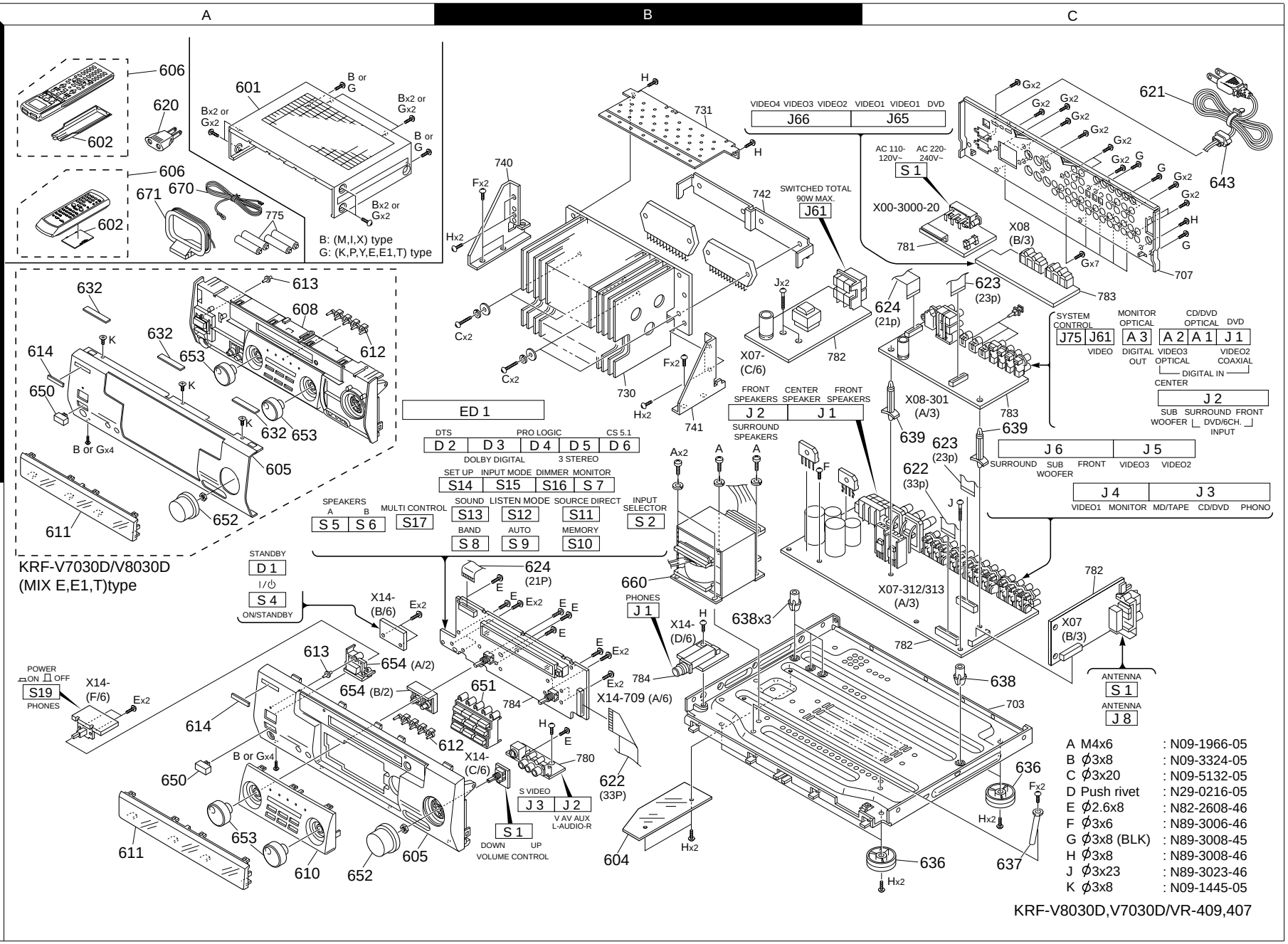
Y05-4010-10

KRF-V7030D/V8030D/VR-407/409

KENWOOD

EXPLODED VIEW (UNIT)

KRF-V7030D/V8030D/VR-407/409



Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
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Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
			KRF-V7030D/V8030D			
601	1A	✻	A01-3731-01	METALLIC CABINET		
602	1A	✻	A09-1166-08	BATTERY COVER	E	
602	1A	✻	A09-1178-08	BATTERY COVER	E1T	
604	2B	✻	A46-0309-04	REAR COVER		
605	1A,2A	✻	A60-1744-12	PANEL		
606	1A	✻	A70-1331-05	REMOTE CONTROL ASSY(RC-R0610)	E1T	
606	1A	✻	A70-1345-05	REMOTE CONTROL ASSY(RC-R0808)	E	
608	1A	✻	A22-1833-11	SUB PANEL	E	
608	1A	✻	A22-1835-11	SUB PANEL	E1T	
611	2A	✻	B10-3545-02	FRONT GLASS	E	
611	2A	✻	B10-3548-02	FRONT GLASS	E1T	
612	1A,2B	✻	B12-0383-04	INDICATOR		
613	1A,2B		B12-0341-04	INDICATOR		
614	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0310-03	WARRANTY CARD		
-			B58-0945-03	CAUTION CARD	T	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	T	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	EE1	
-		✻	B60-4595-00	INSTRUCTION MANUAL (ES)	E	
-		✻	B60-4596-00	INSTRUCTION MANUAL (FR)	E	
-		✻	B60-4597-00	INSTRUCTION MANUAL (GE/NE/IT)	E	
-		✻	B60-4602-00	INSTRUCTION MANUAL (EN)	T	
-		✻	B60-4603-00	INSTRUCTION MANUAL (ES)	E1	
-		✻	B60-4604-00	INSTRUCTION MANUAL (FR/GE)	E1	
-		✻	B60-4605-00	INSTRUCTION MANUAL (IT/NE)	E1	
-		✻	B60-4615-00	INSTRUCTION MANUAL (5-LAN)	E	
-		✻	B60-4622-00	INSTRUCTION MANUAL (5-LAN)	E1	
-		✻	B60-4624-00	INSTRUCTION MANUAL (EN)	T	
⚠ 621	1C		E30-2721-05	AC POWER CORD	T	
⚠ 621	1C	✻	E30-2942-05	AC POWER CORD	EE1	
622	1C,2B	✻	E35-2456-05	FLAT CABLE (33P)		
623	1C	✻	E35-2480-05	FLAT CABLE (23P)		
624	1C,2B	✻	E35-2613-05	FLAT CABLE (21P)		
632	1A		G10-0481-04	NON-WOVEN FABRIC		
-			G11-2416-04	CUSHION		
-		✻	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EE1	
-			H25-0391-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232 PRINT)	T	
-		✻	H50-3599-04	ITEM CARTON CASE	E	
-		✻	H50-3604-04	ITEM CARTON CASE	E1T	
636	2C	✻	J02-1464-03	FOOT		
637	2C		J19-2808-05	HOLDER		
638	2B,2C		J19-3752-14	UNIT HOLDER		
639	1C	✻	J19-6078-05	UNIT HOLDER		
⚠ 643	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	✻	K27-2384-04	KNOB (BUTTON)		
651	2B	✻	K29-7675-12	KNOB		
652	2A	✻	K29-7678-04	KNOB (VOLUME)		

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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
653	1A,2A	✻	K29-7681-14	KNOB (MULTI/INPUT)		
⚠ 660	2B	✻	L07-2790-05	POWER TRANSFORMER		
670	1A		T90-0836-05	LEAD WIRE ANTENNA		
671	1A	✻	T90-0852-05	LOOP ANTENNA		
			KRF-V8030D-S			
601	1A	✻	A01-3732-01	METALLIC CABINET		
602	1A	✻	A09-1166-08	BATTERY COVER		
604	2B	✻	A46-0309-04	REAR COVER		
605	1A,2A	✻	A60-1743-12	PANEL		
606	1A	✻	A70-1315-05	REMOTE CONTROL ASSY(RC-R0809)		
608	1A	✻	A22-1834-11	SUB PANEL		
611	2A	✻	B10-3544-02	FRONT GLASS		
612	1A,2B	✻	B12-0383-04	INDICATOR		
613	1A,2B		B12-0341-04	INDICATOR		
614	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	X	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MI	
-		✻	B60-4593-00	INSTRUCTION MANUAL (EN)		
-		✻	B60-4594-00	INSTRUCTION MANUAL (TC)	MI	
-		✻	B60-4595-00	INSTRUCTION MANUAL (ES)	M	
-		✻	B60-4611-00	INSTRUCTION MANUAL (EN)		
-		✻	B60-4612-00	INSTRUCTION MANUAL (TC)	MI	
-		✻	B60-4613-00	INSTRUCTION MANUAL (ES)	M	
⚠ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 621	1C		E30-2717-05	AC POWER CORD	X	
⚠ 621	1C	✻	E30-2942-05	AC POWER CORD	MI	
622	1C,2B	✻	E35-2456-05	FLAT CABLE (33P)		
623	1C	✻	E35-2480-05	FLAT CABLE (23P)		
624	1C,2B	✻	E35-2613-05	FLAT CABLE (21P)		
632	1A		G10-0481-04	NON-WOVEN FABRIC		
-			G11-2416-04	CUSHION		
-		✻	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-3600-04	ITEM CARTON CASE	X	
-		✻	H50-3601-04	ITEM CARTON CASE	MI	
636	2C	✻	J02-1464-03	FOOT		
637	2C		J19-2808-05	HOLDER		
638	2B,2C		J19-3752-14	UNIT HOLDER		
639	1C	✻	J19-6078-05	UNIT HOLDER		
⚠ 643	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	✻	K27-2385-04	KNOB (BUTTON)		
651	2B	✻	K29-7676-12	KNOB		
652	2A	✻	K29-7679-04	KNOB (VOLUME)		
653	1A,2A	✻	K29-7682-14	KNOB (MULTI/INPUT)		
⚠ 660	2B	✻	L07-2788-05	POWER TRANSFORMER	MI	

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❸

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⚠ 660	2B	✻	L07-2789-05	POWER TRANSFORMER	X	
670	1A		T90-0836-05	LEAD WIRE ANTENNA		
671	1A	✻	T90-0852-05	LOOP ANTENNA		
VR-409/KRF-V8030D						
601	1A	✻	A01-3733-01	METALLIC CABINET		
602	1A	✻	A09-1166-08	BATTERY COVER		
604	2B	✻	A46-0309-04	REAR COVER		
605	1A,2A	✻	A60-1736-11	PANEL	KP	
605	1A,2A	✻	A60-1737-11	PANEL	Y	
606	1A	✻	A70-1315-05	REMOTE CONTROL ASSY(RC-R0809)		
610	2A	✻	B07-2475-02	ESCUTCHEON		
611	2A	✻	B10-3543-02	FRONT GLASS	KP	
611	2A	✻	B10-3544-02	FRONT GLASS	Y	
612	1A,2B	✻	B12-0383-04	INDICATOR		
613	1A,2B	✻	B12-0385-04	INDICATOR		
614	1A,2A		B43-0314-04	KENWOOD BADGE		
-			B46-0328-03	WARRANTY CARD	KY	
-			B46-0346-00	QUESTIONAIRE CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-		✻	B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		✻	B60-4593-00	INSTRUCTION MANUAL (EN)		
-		✻	B60-4596-00	INSTRUCTION MANUAL (FR)	P	
-		✻	B60-4611-00	INSTRUCTION MANUAL EN(R)		
-		✻	B60-4614-00	INSTRUCTION MANUAL FR(R)	P	
⚠ 621	1C		E30-2605-05	AC POWER CORD	Y	
⚠ 621	1C	✻	E30-2941-05	AC POWER CORD	KP	
622	1C,2B	✻	E35-2456-05	FLAT CABLE (33P)		
623	1C	✻	E35-2480-05	FLAT CABLE (23P)		
624	1C,2B	✻	E35-2613-05	FLAT CABLE (21P)		
-			G11-2416-04	CUSHION		
-		✻	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-3598-04	ITEM CARTON CASE	KP	
-		✻	H50-3599-04	ITEM CARTON CASE	Y	
636	2C	✻	J02-1464-03	FOOT		
637	2C		J19-2808-05	HOLDER		
638	2B,2C		J19-3752-14	UNIT HOLDER		
639	1C	✻	J19-6078-05	UNIT HOLDER		
⚠ 643	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	✻	K27-2384-04	KNOB (BUTTON)	Y	
651	2B	✻	K29-7675-12	KNOB		
652	2A	✻	K29-7678-04	KNOB (VOLUME)		
653	1A,2A	✻	K29-7681-14	KNOB (MULTI/INPUT)		
654	2A	✻	K29-7687-03	KNOB (POWER/SPEAKER)		

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❹

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⚠ 660	2B	✻	L07-2787-05	POWER TRANSFORMER	KP	
⚠ 660	2B	✻	L07-2788-05	POWER TRANSFORMER	Y	
670	1A		T90-0836-05	LEAD WIRE ANTENNA		
671	1A	✻	T90-0852-05	LOOP ANTENNA		
VR-407/407-S/KRF-V7030D/V7030D-S						
601	1A	✻	A01-3733-01	METALLIC CABINET	KPY	
601	1A	✻	A01-3734-01	METALLIC CABINET	MIXK1	
602	1A	✻	A09-1178-08	BATTERY COVER		
604	2B	✻	A46-0309-04	REAR COVER		
605	1A,2A	✻	A60-1736-11	PANEL	KP	
605	1A,2A	✻	A60-1737-11	PANEL	Y	
605	1A,2A	✻	A60-1738-11	PANEL	K1	
605	1A,2A	✻	A60-1739-11	PANEL	MIX	
606	1A	✻	A70-1330-05	REMOTE CONTROL ASSY(RC-R0609)		
610	2A	✻	B07-2476-02	ESCUTCHEON	MIXK1	
610	2A	✻	B07-2507-02	ESCUTCHEON	KPY	
611	2A	✻	B10-3546-02	FRONT GLASS	KPK11	
611	2A	✻	B10-3547-02	FRONT GLASS	YMIX	
612	1A,2B	✻	B12-0383-04	INDICATOR		
613	1A,2B	✻	B12-0385-04	INDICATOR		
614	1A,2A		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0328-03	WARRANTY CARD	KYK1	
-			B46-0346-00	QUESTIONAIRE CARD	KK1	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD (UL)	KYK1	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	X	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MI	
-		✻	B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		✻	B60-4598-00	INSTRUCTION MANUAL (EN)		
-		✻	B60-4599-00	INSTRUCTION MANUAL (FR)	P	
-		✻	B60-4600-00	INSTRUCTION MANUAL (TC)	MI	
-		✻	B60-4603-00	INSTRUCTION MANUAL (ES)	M	
-		✻	B60-4617-00	INSTRUCTION MANUAL EN(R)		
-		✻	B60-4618-00	INSTRUCTION MANUAL FR(R)	P	
-		✻	B60-4619-00	INSTRUCTION MANUAL ES(R)	M	
-		✻	B60-4620-00	INSTRUCTION MANUAL TC(R)	MI	
⚠ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 621	1C		E30-2605-05	AC POWER CORD	Y	
⚠ 621	1C		E30-2717-05	AC POWER CORD	X	
⚠ 621	1C	✻	E30-2941-05	AC POWER CORD	KPK1	
⚠ 621	1C	✻	E30-2942-05	AC POWER CORD	MI	
622	1C,2B	✻	E35-2456-05	FLAT CABLE (33P)		
623	1C	✻	E35-2480-05	FLAT CABLE (23P)		
624	1C,2B	✻	E35-2613-05	FLAT CABLE (21P)		
-			G11-2416-04	CUSHION		
-		✻	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-3602-04	ITEM CARTON CASE	KP	

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❺

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-		✻	H50-3603-04	ITEM CARTON CASE			K1	
-		✻	H50-3604-04	ITEM CARTON CASE			Y	
-		✻	H50-3605-04	ITEM CARTON CASE			X	
-		✻	H50-3606-04	ITEM CARTON CASE			MI	
636	2C	✻	J02-1464-03	FOOT				
637	2C		J19-2808-05	HOLDER				
638	2B,2C		J19-3752-14	UNIT HOLDER				
639	1C	✻	J19-6078-05	UNIT HOLDER				
⚠ 643	1C		J42-0083-05	POWER CORD BUSHING				
-			J61-0307-05	WIRE BAND				
650	2A	✻	K27-2384-04	KNOB (BUTTON)			Y	
650	2B	✻	K27-2385-04	KNOB (BUTTON)			MIX	
651	2A	✻	K29-7675-12	KNOB			KPY	
651	1A,2A	✻	K29-7676-12	KNOB			MIXK1	
652	2A	✻	K29-7678-04	KNOB (VOLUME)			KPY	
652	2A	✻	K29-7679-04	KNOB (VOLUME)			MIXK1	
653	1A,2A	✻	K29-7681-14	KNOB (MULTI/INPUT)			KPY	
653	1A,2A	✻	K29-7682-14	KNOB (MULTI/INPUT)			MIXK1	
654	2A	✻	K29-7687-03	KNOB (POWER/SPEAKER)			KPY	
654	2A	✻	K29-7688-03	KNOB (POWER/SPEAKER)			MIXK1	
⚠ 660	2B	✻	L07-2787-05	POWER TRANSFORMER			KPK1	
⚠ 660	2B	✻	L07-2788-05	POWER TRANSFORMER			YMI	
⚠ 660	2B	✻	L07-2789-05	POWER TRANSFORMER			X	
670	1A		T90-0836-05	LEAD WIRE ANTENNA				
671	1A	✻	T90-0852-05	LOOP ANTENNA				
POWER SUPPLY UNIT (X00-3000-20) Y,M,I,X only								
CN1			E40-8386-05	PIN ASSY				
⚠ F3			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			
CN2 ,3			J13-0075-05	FUSE CLIP				
⚠ S1			S62.1.5	SLIDE SWITCH				
POWER AMPLIFIER UNIT (X07-312X/313X-XX)								
C1			CK73FB1H223K	CHIP C	0.022UF	K		
C2			CK73FB1H103K	CHIP C	0.010UF	K	EE1T	
C3			CK73FB1H103K	CHIP C	0.010UF	K		
C4			CC73FCH1H331J	CHIP C	330PF	J	EE1T	
C4			CC73FCH1H331J	CHIP C	330PF	J	KPK1	
C5 ,6			CK73FB1H103K	CHIP C	0.010UF	K		
C7			CE04LW1C470M	ELECTRO	47UF	16WV		
C8			CK73EB1H103K	CHIP C	0.010UF	K	YMIX	
C9			CC73FCH1H102J	CHIP C	1000PF	J	YMIX	
C10			CE04LW1C470M	ELECTRO	47UF	16WV		
C11 ,12			CK73FB1H473K	CHIP C	0.047UF	K		
C14			CE04LW1C100M	ELECTRO	10UF	16WV		
C15			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C16			CE04RW1HR47M	ELECTRO	0.47UF	50WV		
C17			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C18			CC73FCH1H470J	CHIP C	47PF	J		
C19			CE04RW1A100M	ELECTRO	10UF	10WV		
C20			CK73FB1H473K	CHIP C	0.047UF	K		
C21			CE04RW1V3R3M	ELECTRO	3.3UF	35WV		
C22			CK73FB1H473K	CHIP C	0.047UF	K		

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C23			CE04LW1C100M	ELECTRO	10UF	16WV		
C24			CK73FB1H331K	CHIP C	330PF	K		
C25			CC73FCH1H181J	CHIP C	180PF	J	EE1T	
C25			CC73FCH1H471J	CHIP C	470PF	J		789
C26			CK73FB1H183K	CHIP C	0.018UF	K	EE1T	
C26			CK73FB1H223K	CHIP C	0.022UF	K		789
C27			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV		
C28 ,29			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K	EE1T	
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K	KPK1	
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K	YMIX	
C32			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C33 ,34			CK73FB1H103K	CHIP C	0.010UF	K	YMI	
C35			CK73FB1H332K	CHIP C	3300PF	K		789
C36			CK73FB1H103K	CHIP C	0.010UF	K		
C37 ,38			CE04LW1C100M	ELECTRO	10UF	16WV		
C41			CC73FCH1H470J	CHIP C	47PF	J		
C42			CC73FCH1H120J	CHIP C	12PF	J		
C43			CC73FCH1H100D	CHIP C	10PF	D		
C44			CK73FB1H471K	CHIP C	470PF	K		
C45			CC73FCH1H220J	CHIP C	22PF	J		
C46			CE04LW1C100M	ELECTRO	10UF	16WV		
C47			CK73FB1H102K	CHIP C	1000PF	K		
C48			CE04LW1C470M	ELECTRO	47UF	16WV		
C49			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C50			CC73FCH1H101J	CHIP C	100PF	J		
C51			CK73FB1H471K	CHIP C	470PF	K		
C52			CC73FCH1H101J	CHIP C	100PF	J		
C70 ,71			CK73FB1H682K	CHIP C	6800PF	K	EE1T	
C72			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C73			CE04LW1C470M	ELECTRO	47UF	16WV		
C74			CK73FB1H102K	CHIP C	1000PF	K	KPK1	
C75			CC73FCH1H030C	CHIP C	3.0PF	C		
C76			CC73FCH1H470J	CHIP C	47PF	J		
C77			CC73FCH1H101J	CHIP C	100PF	J	YMI	
C78			CK73FB1H223K	CHIP C	0.022UF	K		
C79 ,80			CK73FB1H472K	CHIP C	4700PF	K	EE1T	
C81			CK73FF1C105Z	CHIP C	1.0UF	Z		
C82			CK73FB1H103K	CHIP C	0.010UF	K	EE1T	
C82			CK73FB1H103K	CHIP C	0.010UF	K	KPK1	
C83			CC73FCH1H101J	CHIP C	100PF	J		
C84 ,85			CK73FB1H223K	CHIP C	0.022UF	K		
C86			CK73FB1H471K	CHIP C	470PF	K		
C88			CK73FB1H332K	CHIP C	3300PF	K		
C89 ,90			CK73FB1H472K	CHIP C	4700PF	K		789
C91			CK73FF1C105Z	CHIP C	1.0UF	Z		
C101,102			CC73FCH1H390J	CHIP C	39PF	J		
C103,104		✻	CE04RW1V100M	ELECTRO	10UF	35WV		
C105,106			CC73FCH1H221J	CHIP C	220PF	J		
C107,108			CE04RW0J470M	ELECTRO	47UF	6.3WV		
C109,110			CC73FCH1H471J	CHIP C	470PF	J		
C111,112			CQ93FMG1H123J	MYLAR	0.012UF	J		
C113,114			CK45FB1H332K	CERAMIC	3300PF	K		
C115,116			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C117,118			CC45FCH1H101J	CERAMIC	100PF	J		

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C119-136			CC73FCH1H221J	CHIP C	220PF	J		
C137,138			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C139,140			CC73FCH1H101J	CHIP C	100PF	J		
C141,142			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C143,144			CC73FCH1H101J	CHIP C	100PF	J		
C145,146			CE04LW1C220M	ELECTRO	22UF	16WV		
C147,148			CC73FCH1H471J	CHIP C	470PF	J		
C149,150			CE04LW1E470M	ELECTRO	47UF	25WV		
C151,152			CC73FCH1H100D	CHIP C	10PF	D		
C153,154			CE04KW1H100M	ELECTRO	10UF	50WV		
C155,156			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C157,158			CC73FCH1H102J	CHIP C	1000PF	J		
C159,160			CK73FB1H222K	CHIP C	2200PF	K		
C161,162			CC73FCH1H220J	CHIP C	22PF	J		
C163,164			CC73FCH1H102J	CHIP C	1000PF	J		
C165,166			CE04KW1A101M	ELECTRO	100UF	10WV		
C167-170			CK73FF1E104Z	CHIP C	0.10UF	Z		
C171,172			CQ93FMG1H472J	MYLAR	4700PF	J		
C173,174			CC73FCH1H221J	CHIP C	220PF	J	E	3
C173,174			CC73FCH1H221J	CHIP C	220PF	J	MIX	8
C173,174			CC73FCH1H221J	CHIP C	220PF	J	Y	9
C175,176			CC73FCH1H471J	CHIP C	470PF	J		
C177,178			CE04LW1E470M	ELECTRO	47UF	25WV		
C179,180			CC73FCH1H100D	CHIP C	10PF	D		
C181,182			CE04KW1H100M	ELECTRO	10UF	50WV		
C183,184			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C185,186			CC73FCH1H102J	CHIP C	1000PF	J		
C187,188			CK73FB1H222K	CHIP C	2200PF	K		
C189,190			CC45FCH1H220J	CERAMIC	22PF	J		
C191,192			CC73FCH1H102J	CHIP C	1000PF	J		
C193,194			CE04KW1A101M	ELECTRO	100UF	10WV		
C195-198			CK73FF1E104Z	CHIP C	0.10UF	Z		
C199-202			CQ93FMG1H472J	MYLAR	4700PF	J		
C203,204			CC73FCH1H221J	CHIP C	220PF	J	E	3
C203,204			CC73FCH1H221J	CHIP C	220PF	J	MIX	8
C203,204			CC73FCH1H221J	CHIP C	220PF	J	Y	9
C205			CC73FCH1H471J	CHIP C	470PF	J		
C206			CE04LW1E470M	ELECTRO	47UF	25WV		
C207			CC73FCH1H100D	CHIP C	10PF	D		
C208			CE04KW1H100M	ELECTRO	10UF	50WV		
C209			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C210			CC73FCH1H102J	CHIP C	1000PF	J		
C211			CK73FB1H222K	CHIP C	2200PF	K		
C212			CC45FCH1H220J	CERAMIC	22PF	J		
C213			CC73FCH1H102J	CHIP C	1000PF	J		
C214			CE04KW1A101M	ELECTRO	100UF	10WV		
C215,216			CK73FF1E104Z	CHIP C	0.10UF	Z		
C217			CQ93FMG1H472J	MYLAR	4700PF	J		
C218			CC73FCH1H221J	CHIP C	220PF	J	E	3
C218			CC73FCH1H221J	CHIP C	220PF	J	MIX	8
C218			CC73FCH1H221J	CHIP C	220PF	J	Y	9
C220			CC73FCH1H471J	CHIP C	470PF	J		
C221			CE04LW1A101M	ELECTRO	100UF	10WV		
C222			CC73FCH1H101J	CHIP C	100PF	J		
C223			CE04LW1H100M	ELECTRO	10UF	50WV		

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C224			CC73FCH1H221J	CHIP C	220PF	J		
C225,226			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C227-230			CC73FCH1H101J	CHIP C	100PF	J		
C231,232		✻	C90-3916-05	ELECTRO	4700UF	75WV		789
C231,232		✻	C90-3918-05	ELECTRO	4700UF	63WV	EE1T	
C233,234		✻	C90-3917-05	ELECTRO	3300UF	42WV		789
C233,234		✻	C90-3919-05	ELECTRO	3300UF	35WV	EE1T	
C235			CE04KW1E222M	ELECTRO	2200UF	25WV		
C236			CE04KW1E471M	ELECTRO	470UF	25WV		
C237,238			CE04LW1C101M	ELECTRO	100UF	16WV		
C239			CE04LW1H220M	ELECTRO	22UF	50WV		
C240			CE04LW1V470M	ELECTRO	47UF	35WV		
C241			CC45FCH1H101J	CERAMIC	100PF	J		
C242			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C245			CC73FCH1H221J	CHIP C	220PF	J		
C246			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C247			CC73FCH1H101J	CHIP C	100PF	J		
C248			CC73FCH1H221J	CHIP C	220PF	J		
C250			CC73FCH1H102J	CHIP C	1000PF	J		
C251,252			CE04KW2A100M	ELECTRO	10UF	100WV		
C253,254			CE04KW2A101M	ELECTRO	100UF	100WV		
C255,256			CE04DW1J101M	ELECTRO	100UF	63WV		
C259			CE04LW1A101M	ELECTRO	100UF	10WV		
C260			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C261			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C262			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C263			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C264			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C265-267			CC73FCH1H102J	CHIP C	1000PF	J		
C268			CK73FF1C105Z	CHIP C	1.0UF	Z		
C415			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C416,417			CE04HW1E100M	NP-ELEC	10UF	25WV		
C601			CE04LW1E332M	ELECTRO	3300UF	25WV		
C602			CE04LW1H100M	ELECTRO	10UF	50WV		
C603			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C604			CE04LW1H100M	ELECTRO	10UF	50WV		
C605			CE04LW0J222M	ELECTRO	2200UF	6.3WV	YMI	
C606			CK73FB1E104K	CHIP C	0.10UF	K	EE1T	
C606			CK73FB1E104K	CHIP C	0.10UF	K	KPK1X	
C606			CK73FB1H683K	CHIP C	0.068UF	K	YMI	
CN1			E40-8364-05	PIN ASSY				
CN2			E40-8197-05	SOCKET FOR PIN ASSY				
CN3		✻	E40-8485-05	FLAT CABLE CONNECTOR				
CN4			E40-4871-05	PIN ASSY			EE1T	
CN4			E40-4871-05	PIN ASSY			KPK1	
CN5			E40-9831-05	SOCKET FOR PIN ASSY				
CN6			E40-9848-05	PIN ASSY				
CN7		✻	E40-8490-05	FLAT CABLE CONNECTOR				
CN61			E40-4245-05	PIN ASSY				
CN62			E40-4245-05	PIN ASSY			EE1T	
CN62			E40-4245-05	PIN ASSY			KPK1X	
CN63			E40-4428-05	PIN ASSY			YMI	
CN64			E40-4245-05	PIN ASSY			EE1T	
CN64			E40-4245-05	PIN ASSY			YMIX	
CN65			E40-8196-05	PIN ASSY				

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KRF-V7030D/V8030D/VR-407/409

PARTS LIST

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J1			E70-0049-05	SCREW TERMINAL BOARD					
J2			E70-0065-05	LOCK TERMINAL BOARD					
J3 ,4		✻	E63-1143-05	PIN JACK					
J5		✻	E63-1144-05	PIN JACK					
J6		✻	E63-1145-05	PIN JACK (6P)				YMIXE	
J7		✻	E63-1146-05	PIN JACK (1P)				EE1T	
J7		✻	E63-1146-05	PIN JACK				KP	9
J7		✻	E63-1146-05	PIN JACK					7
J8			E20-0321-05	LOCK TERMINAL BOARD(2P,F)					
J8			E70-0052-05	LOCK TERMINAL BOARD					
⚠ J61			E03-0148-05	AC OUTLET				KPK1Y	
⚠ J61			E03-0149-05	AC OUTLET				EE1MI	
⚠ J61			E03-0310-05	AC OUTLET				T	
⚠ J61			E03-0325-05	AC OUTLET				X	
E1			F10-1129-14	SHIELDING PLATE					789
E1		✻	F10-1167-04	SHIELDING PLATE				EE1T	
⚠ F1			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			EE1T	
⚠ F1			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			YMIX	
⚠ F1			F50-0077-05	FUSE(5X20)				KPK1	
⚠ F2			F05-2525-05	FUSE (SEMKO)	(250V T2.5AL)			EE1	
⚠ CN66,67			J13-0075-05	FUSE CLIP					
⚠ CN68,69			J13-0075-05	FUSE CLIP				EE1	
CF1 ,2			L72-0531-05	CERAMIC FILTER				YMIX	
CF1 ,2			L72-0536-05	CERAMIC FILTER				EE1T	
CF1 ,2			L72-0596-05	CERAMIC FILTER				KPK1	
CF3			L72-0607-05	CERAMIC FILTER				YMIX	
L1		✻	L39-1384-05	COMBINATION COIL					
L2			L40-1091-82	SMALL FIXED INDUCTOR(1.0UH)					
L3			L30-0911-05	AM IFT					
L4			L30-0933-05	FM IFT				KPK1	
L4			L30-0950-05	FM IFT				EE1T	
L5			L30-0951-05	FM IFT				EE1T	
L6 ,7			L79-1236-05	LC FILTER				EE1T	
L8			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				EE1T	
L101-105			L39-1373-05	PHASE COMPENSATION COIL					
⚠ T1			L07-2758-05	POWER TRANSFORMER				EE1T	
⚠ T1			L07-2758-05	POWER TRANSFORMER				KPK1X	
⚠ T1			L07-2761-05	POWER TRANSFORMER				EE1T	
⚠ T1			L07-2761-05	POWER TRANSFORMER				KPK1X	
⚠ T1		✻	L07-2805-05	POWER TRANSFORMER				YMI	
X1			L77-2232-05	CRYSTAL RESONATOR					
R1			RK73FB2A101J	CHIP R	100	J	1/10W		
R4			RK73FB2A681J	CHIP R	680	J	1/10W		
R5			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R6			RK73FB2A221J	CHIP R	220	J	1/10W		
R7			RK73FB2A821J	CHIP R	820	J	1/10W		
R8			RK73FB2A100J	CHIP R	10	J	1/10W	EE1T	
R8			RK73FB2A330J	CHIP R	33	J	1/10W		789
R9			RK73FB2A391J	CHIP R	390	J	1/10W		
R10			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R11			RK73FB2A220J	CHIP R	22	J	1/10W	EE1T	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R11			RK73FB2A330J	CHIP R	33	J	1/10W		789
R12			RK73FB2A101J	CHIP R	100	J	1/10W		
R14			RK73FB2A101J	CHIP R	100	J	1/10W	EE1T	
R14			RK73FB2A101J	CHIP R	100	J	1/10W	KPK1	
R14			RK73FB2A271J	CHIP R	270	J	1/10W	YMIX	
R15			RK73FB2A333J	CHIP R	33K	J	1/10W	EE1T	
R15			RK73FB2A472J	CHIP R	4.7K	J	1/10W	KPK1	
R16			RK73FB2A220J	CHIP R	22	J	1/10W		
R17			RK73FB2A362J	CHIP R	3.6K	J	1/10W		
R18			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R19			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R20			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R23			RK73FB2A153J	CHIP R	15K	J	1/10W	EE1T	
R23			RK73FB2A332J	CHIP R	3.3K	J	1/10W	YMIX	
R23			RK73FB2A912J	CHIP R	9.1K	J	1/10W	KPK1	
R25			RK73FB2A163J	CHIP R	16K	J	1/10W	KPK1	
R25			RK73FB2A183J	CHIP R	18K	J	1/10W	YMIX	
R25			RK73FB2A273J	CHIP R	27K	J	1/10W	EE1T	
R27 ,28			RK73FB2A432J	CHIP R	4.3K	J	1/10W	EE1T	
R27 ,28			RK73FB2A682J	CHIP R	6.8K	J	1/10W	KPK1	
R27 ,28			RK73FB2A752J	CHIP R	7.5K	J	1/10W	YMIX	
R29			RK73FB2A101J	CHIP R	100	J	1/10W	YMI	
R30			RK73FB2A561J	CHIP R	560	J	1/10W	YMI	
R31			RK73FB2A473J	CHIP R	47K	J	1/10W	YMI	
R32			RK73FB2A272J	CHIP R	2.7K	J	1/10W		789
R33 ,34			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R35			RK73FB2A101J	CHIP R	100	J	1/10W	EE1T	
R36			RK73FB2A102J	CHIP R	1.0K	J	1/10W	EE1T	
R37			RK73FB2A392J	CHIP R	3.9K	J	1/10W	EE1T	
R38			RK73FB2A102J	CHIP R	1.0K	J	1/10W	EE1T	
R39			RK73FB2A103J	CHIP R	10K	J	1/10W	EE1T	
R42			RK73FB2A103J	CHIP R	10K	J	1/10W		
R43			RK73FB2A221J	CHIP R	220	J	1/10W		
⚠ R44			RD14NB2E271J	RD	270	J	1/4W		
R45			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R46			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R47			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R48			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R49			RK73FB2A103J	CHIP R	10K	J	1/10W		
⚠ R50			RD14NB2E471J	RD	470	J	1/4W		
R51			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R52			RK73FB2A101J	CHIP R	100	J	1/10W		
R53			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R54			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R55			RK73FB2A333J	CHIP R	33K	J	1/10W		
R56 ,57			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R58			RK73FB2A123J	CHIP R	12K	J	1/10W		
R59			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R72 ,73			RK73FB2A153J	CHIP R	15K	J	1/10W	KPK1	
R72 ,73			RK73FB2A392J	CHIP R	3.9K	J	1/10W	EE1T	
R72 ,73			RK73FB2A822J	CHIP R	8.2K	J	1/10W	YMIX	
R74			RK73FB2A473J	CHIP R	47K	J	1/10W		
R75			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R76			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R78			RK73FB2A821J	CHIP R	820	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R79			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R80			RK73FB2A223J	CHIP R	22K	J	1/10W	EE1T	
⚠ R81			RS14KB3A820J	FL-PROOF RS	82	J	1W		
R82			RK73FB2A272J	CHIP R	2.7K	J	1/10W	EE1T	
R83			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R85 -87			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R88			RK73FB2A563J	CHIP R	56K	J	1/10W		
R89			RK73FB2A333J	CHIP R	33K	J	1/10W		
R101,102			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R103,104			RK73FB2A273J	CHIP R	27K	J	1/10W		
R105,106			RK73FB2A101J	CHIP R	100	J	1/10W		
R117,118			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R119,120			RK73FB2A224J	CHIP R	220K	J	1/10W		
R121,122			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R123,124			RK73FB2A224J	CHIP R	220K	J	1/10W		
R125,126			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R127,128			RK73FB2A224J	CHIP R	220K	J	1/10W		
R129,130			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R131,132			RK73FB2A224J	CHIP R	220K	J	1/10W		
R133,134			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R135,136			RK73FB2A224J	CHIP R	220K	J	1/10W		
R137,138			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R139,140			RK73FB2A224J	CHIP R	220K	J	1/10W		
R141,142			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R143,144			RK73FB2A224J	CHIP R	220K	J	1/10W		
R145,146			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R147,148			RK73FB2A224J	CHIP R	220K	J	1/10W		
R149,150			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R151-156			RK73FB2A224J	CHIP R	220K	J	1/10W		
R159			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R161,162			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R163,164			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R165,166			RK73FB2A183J	CHIP R	18K	J	1/10W		
R167,168			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R169,170			RK73FB2A224J	CHIP R	220K	J	1/10W		
R171,172			RK73FB2A183J	CHIP R	18K	J	1/10W		
R173,174			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R175,176			RK73FB2A104J	CHIP R	100K	J	1/10W		
R177,178			RK73FB2A563J	CHIP R	56K	J	1/10W		
R179			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R180			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R181-184			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R185,186			RK73FB2A563J	CHIP R	56K	J	1/10W		
R187,188			RK73FB2A182J	CHIP R	1.8K	J	1/10W		789
R187,188			RK73FB2A242J	CHIP R	2.4K	J	1/10W	EE1T	
R189,190			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R191,192			RS14KB3D391J	FL-PROOF RS	390	J	2W		
R195,196			RK73FB2A104J	CHIP R	100K	J	1/10W	E	3
R195,196			RK73FB2A104J	CHIP R	100K	J	1/10W	MIX	8
R195,196			RK73FB2A104J	CHIP R	100K	J	1/10W	Y	9
R197,198			RK73FB2A331J	CHIP R	330	J	1/10W	E	3
R197,198			RK73FB2A331J	CHIP R	330	J	1/10W	YMIX	
R199,200			RK73FB2A333J	CHIP R	33K	J	1/10W		
R201,202			RK73FB2A303J	CHIP R	30K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R203,204			RK73FB2A912J	CHIP R	9.1K	J	1/10W		
R205,206			RK73FB2A471J	CHIP R	470	J	1/10W		
R209,210			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R211,212			RK73FB2A273J	CHIP R	27K	J	1/10W		
R213,214			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R215,216			RK73FB2A224J	CHIP R	220K	J	1/10W		
R217,218			RK73FB2A183J	CHIP R	18K	J	1/10W		
R219,220			RK73EB2B222J	CHIP R	2.2K	J	1/8W		
R221,222			RK73FB2A104J	CHIP R	100K	J	1/10W		
R223,224			RK73FB2A563J	CHIP R	56K	J	1/10W		
R225			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R227-230			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R233,234			RK73FB2A182J	CHIP R	1.8K	J	1/10W		789
R233,234			RK73FB2A242J	CHIP R	2.4K	J	1/10W	EE1T	
R235,236			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R239,240			RK73FB2A104J	CHIP R	100K	J	1/10W	E	3
R239,240			RK73FB2A104J	CHIP R	100K	J	1/10W	MIX	8
R239,240			RK73FB2A104J	CHIP R	100K	J	1/10W	Y	9
R241,242			RK73FB2A331J	CHIP R	330	J	1/10W	E	3
R241,242			RK73FB2A331J	CHIP R	330	J	1/10W	MIX	8
R241,242			RK73FB2A331J	CHIP R	330	J	1/10W	Y	9
R243,244			RK73FB2A333J	CHIP R	33K	J	1/10W		
R245,246			RK73FB2A303J	CHIP R	30K	J	1/10W		
R247,248			RK73FB2A912J	CHIP R	9.1K	J	1/10W		
R249,250			RK73FB2A471J	CHIP R	470	J	1/10W		
R251			RK73FB2A183J	CHIP R	18K	J	1/10W		
R252			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R253			RK73FB2A224J	CHIP R	220K	J	1/10W		
R254			RK73FB2A183J	CHIP R	18K	J	1/10W		
R256			RK73FB2A104J	CHIP R	100K	J	1/10W		
R257			RK73FB2A563J	CHIP R	56K	J	1/10W		
R259,260			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R262			RK73FB2A182J	CHIP R	1.8K	J	1/10W		789
R262			RK73FB2A242J	CHIP R	2.4K	J	1/10W	EE1T	
R263			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R265			RK73FB2A104J	CHIP R	100K	J	1/10W	E	3
R265			RK73FB2A104J	CHIP R	100K	J	1/10W	MIX	8
R265			RK73FB2A104J	CHIP R	100K	J	1/10W	Y	9
R266			RK73FB2A331J	CHIP R	330	J	1/10W	E	3
R266			RK73FB2A331J	CHIP R	330	J	1/10W	MIX	8
R266			RK73FB2A331J	CHIP R	330	J	1/10W	Y	9
R267			RK73FB2A303J	CHIP R	30K	J	1/10W		
R268			RK73FB2A912J	CHIP R	9.1K	J	1/10W		
R269			RK73FB2A471J	CHIP R	470	J	1/10W		
R270			RK73FB2A333J	CHIP R	33K	J	1/10W		
R271			RK73FB2A183J	CHIP R	18K	J	1/10W		
R272			RK73FB2A241J	CHIP R	240	J	1/10W		
R273			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R274			RK73FB2A183J	CHIP R	18K	J	1/10W		
R276			RK73FB2A224J	CHIP R	220K	J	1/10W		
R277			RK73FB2A331J	CHIP R	330	J	1/10W		
R278			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R279,280		✻	R92-1956-05	METAL GLAZE	33K	J	1/4W		
⚠ R281		✻	R92-1945-05	METAL GLAZE	1	J	1/4W		
⚠ R283			RK73FB2A1R0J	CHIP R	1	J	1/10W		

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⑬

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R284			RK73FB2A104J	CHIP R	100K	J	1/10W		
⚠ R285		✻	R92-1945-05	METAL GLAZE	1	J	1/4W		
R287			RK73EB2B101J	CHIP R	100	J	1/8W		
R301,302			RK73FB2A513J	CHIP R	51K	J	1/10W		
R303-306			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W		
R307			RK73EB2B273J	CHIP R	27K	J	1/8W		
R308			RK73FB2A273J	CHIP R	27K	J	1/10W		
⚠ R309,310			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R312			RD14NB2E103J	RD	10K	J	1/4W		
R313,314			RK73FB2A473J	CHIP R	47K	J	1/10W		
R315			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R316			RD14NB2E101J	RD	100	J	1/4W		
⚠ R317			RD14BB2C752J	RD	7.5K	J	1/6W		
R320			RK73FB2A103J	CHIP R	10K	J	1/10W		
R323			RK73FB2A393J	CHIP R	39K	J	1/10W		
R324,325			RK73FB2A753J	CHIP R	75K	J	1/10W		
R326-328			RK73FB2A473J	CHIP R	47K	J	1/10W		
R329			RK73FB2A123J	CHIP R	12K	J	1/10W		
R330			RK73FB2A153J	CHIP R	15K	J	1/10W		
R331			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R332			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R333			RK73FB2A223J	CHIP R	22K	J	1/10W		
R334			RK73FB2A123J	CHIP R	12K	J	1/10W		
R335			RK73FB2A153J	CHIP R	15K	J	1/10W		
R336			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R337			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R339,340			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
⚠ R341		✻	R92-1945-05	METAL GLAZE	1	J	1/4W		
R342-344			RS14KB3A151J	FL-PROOF RS	150	J	1W		
R347			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W		
R349			RS14KB3A4R7J	FL-PROOF RS	4.7	J	1W		
⚠ R350			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R351			RK73FB2A103J	CHIP R	10K	J	1/10W		
R352			RK73FB2A223J	CHIP R	22K	J	1/10W		
R353			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R356-358			RK73FB2A103J	CHIP R	10K	J	1/10W		
R360			RK73FB2A103J	CHIP R	10K	J	1/10W		
R361,362			RK73FB2A473J	CHIP R	47K	J	1/10W		
R363			RK73FB2A361J	CHIP R	360	J	1/10W		
R365-369			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E	3
R365-369			RK73FB2A102J	CHIP R	1.0K	J	1/10W	MIX	8
R365-369			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y	9
R370			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R371			RK73FB2A563J	CHIP R	56K	J	1/10W		
R372			RK73FB2A104J	CHIP R	100K	J	1/10W		
R373			RK73FB2A361J	CHIP R	360	J	1/10W		
R375			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R377,378			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R384			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R387,388			RK73FB2A473J	CHIP R	47K	J	1/10W		
R389			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R390			RK73FB2A473J	CHIP R	47K	J	1/10W		
R391-394			RK73FB2A470J	CHIP R	47	J	1/10W		
⚠ R397-399			RD14NB2E1R0J	RD	1	J	1/4W		
⚠ R601			RD14NB2E1R0J	RD	1	J	1/4W		

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⑭

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R604			RD14NB2E100J	RD	10	J	1/4W	KPK1	
R604			RD14NB2E390J	RD	39	J	1/4W	EE1T	
R604			RD14NB2E390J	RD	39	J	1/4W	X	
R609			RD14NB2E151J	RD	150	J	1/4W	EE1T	
R609			RD14NB2E181J	RD	180	J	1/4W	X	
R609			RD14NB2E2R2J	RD	2.2	J	1/4W	YMI	
R609			RD14NB2E270J	RD	27	J	1/4W	KPK1	
⚠ R610			R92-1844-05	CARBON	3.3M	J	1/2W	KPK1	
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR					
W108			R92-0670-05	CHIP R	0 OHM				
W301			R92-0679-05	CHIP R	0 OHM				
W302			R92-0670-05	CHIP R	0 OHM				
W303-306			R92-0679-05	CHIP R	0 OHM				
W307			R92-0670-05	CHIP R	0 OHM				
W308			R92-0679-05	CHIP R	0 OHM				
W309-311			R92-0670-05	CHIP R	0 OHM				
W312			R92-0679-05	CHIP R	0 OHM				
W313			R92-0670-05	CHIP R	0 OHM				
W315-318			R92-0679-05	CHIP R	0 OHM				
W319,320			R92-0670-05	CHIP R	0 OHM				
W321			R92-0679-05	CHIP R	0 OHM				
W322,323			R92-0670-05	CHIP R	0 OHM				
W324-333			R92-0679-05	CHIP R	0 OHM				
W336			R92-0679-05	CHIP R	0 OHM				
W338,339			R92-0670-05	CHIP R	0 OHM				
W340,341			R92-0679-05	CHIP R	0 OHM				
W342,343			R92-0670-05	CHIP R	0 OHM				
W506			R92-0679-05	CHIP R	0 OHM				
W513,514			R92-0679-05	CHIP R	0 OHM				
W523			R92-0679-05	CHIP R	0 OHM				
W651-655			R92-0670-05	CHIP R	0 OHM				
W656			R92-0670-05	CHIP R	0 OHM			YMI	
W659			R92-0670-05	CHIP R	0 OHM				789
W660			R92-0670-05	CHIP R	0 OHM			EE1T	
W662			R92-0670-05	CHIP R	0 OHM				
W680			R92-0679-05	CHIP R	0 OHM				
W682,683			R92-0679-05	CHIP R	0 OHM				789
W684,685			R92-0679-05	CHIP R	0 OHM				
K1 -4			S76-0042-05	MAGNETIC RELAY				KPK1	
K1 -4		✻	S76-0097-05	MAGNETIC RELAY				EE1T	
K1 -4		✻	S76-0097-05	MAGNETIC RELAY				YMIX	
⚠ K601			S76-0099-05	MAGNETIC RELAY				KPK1	
⚠ K601		✻	S76-0107-05	MAGNETIC RELAY				EE1T	
⚠ K601		✻	S76-0107-05	MAGNETIC RELAY				YMIX	
S1			S62-0034-05	SLIDE SWITCH				YMI	
D1			UDZ3.3B	ZENER DIODE					
⚠ D101			D5SBA20F03	DIODE					
⚠ D102			S1ZB20(4101)	DIODE					
⚠ D103			D5SBA20F03	DIODE				KPK1YX	
⚠ D103			RBV-602LFA	DIODE				E1TMI	
D104			HZS16N(B2)	ZENER DIODE					
D104			MTZJ16(B)	ZENER DIODE					
D105			HZS15N(B2)	ZENER DIODE					
D105			MTZJ15(B)	ZENER DIODE					

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D106,107			MA111	DIODE		
D108			UDZ6.2B	ZENER DIODE	EE1T	
D108			UDZ8.2B	ZENER DIODE		789
D109			UDZ10B	ZENER DIODE	EE1T	
D109			UDZ15B	ZENER DIODE		789
D110			UDZ13B	ZENER DIODE	EE1T	
D110			UDZ16B	ZENER DIODE		789
D111-115			MA111	DIODE		
D117-120			UDZ15B	ZENER DIODE		
D121			MA111	DIODE		
D122			UDZ3.9B	ZENER DIODE		
D123			HSS104A	DIODE		
D123			1SS133	DIODE		
D124			UDZ3.9B	ZENER DIODE		
D125,126			1SS133	DIODE	YMI	
D127-130			MA111	DIODE		
D201			DA204U	DIODE		
D201			MA143A	DIODE		
D201			1SS302	DIODE		
D203			HZS8.2N(B2)	ZENER DIODE		
D203			MTZJ8.2(B)	ZENER DIODE		
D204			HZS5.1N(B2)	ZENER DIODE		
D204			MTZJ5.1(B)	ZENER DIODE		
D209			HZS3.3N(B2)	ZENER DIODE		
D209			MTZJ3.3(B)	ZENER DIODE		
D211			MA111	DIODE	EE1T	
D213			MA111	DIODE		
⚠ D601			S1ZB20(4101)	DIODE		
⚠ D602-605			HSS104A	DIODE		
D602-605			1SS133	DIODE		
D608			HSS104A	DIODE	KPK1	
D608			RB721Q	DIODE	EE1T	
D608			RB721Q	DIODE	YMIX	
D608			1SS133	DIODE	KPK1	
⚠ IC101		✻	STK412-020A	HYBRID IC		
⚠ IC102		✻	STK413-020A	HYBRID IC		
⚠ IC103		✻	KIA7812API	ANALOGUE IC		
⚠ IC104		✻	KIA7912PI	ANALOGUE IC		
IC105			NJM4580ED	ANALOGUE IC		
IC106			NJU7313AM	ANALOGUE IC		
IC107,108			NJM4565M	ANALOGUE IC		
IC109			NJU7313AM	ANALOGUE IC		
IC110-112			NJM4565M	ANALOGUE IC		
IC201			LA1837	ANALOGUE IC	EE1T	
IC201			LA1837	ANALOGUE IC	KPK1	
IC201			LA1838	ANALOGUE IC	YMIX	
IC202			LC72131	MOS-IC		
⚠ IC601			XC62FP5102P	ANALOGUE IC	KPK1	
⚠ IC602			BA05T	ANALOGUE IC	EE1T	
⚠ IC602			BA05T	ANALOGUE IC	YMIX	
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		
Q1 ,2			2SC2785(F,E)	TRANSISTOR		
Q3 ,4			2SD2351	TRANSISTOR	E	3
Q3 ,4			2SD2351	TRANSISTOR	XMI	8
Q3 ,4			2SD2351	TRANSISTOR	Y	9

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
Q5 ,6			2SD2351	TRANSISTOR		
Q7 ,8			2SC1740S(Q,R)	TRANSISTOR		
Q7 ,8			2SC2785(F,E)	TRANSISTOR		
Q9 ,10			2SD2351	TRANSISTOR	E	3
Q9 ,10			2SD2351	TRANSISTOR	XMI	8
Q9 ,10			2SD2351	TRANSISTOR	Y	9
Q11 ,12			2SD2351	TRANSISTOR		
Q13 ,14			2SC1740S(Q,R)	TRANSISTOR		
Q13 ,14			2SC2785(F,E)	TRANSISTOR		
Q15			2SD2351	TRANSISTOR	E	3
Q15			2SD2351	TRANSISTOR	XMI	8
Q15			2SD2351	TRANSISTOR	Y	9
Q16			2SD2351	TRANSISTOR		
Q17			2SC2878(B)	TRANSISTOR		
Q51 -53			2SA1576A(R,S)	TRANSISTOR		
Q51 -53			2SB1218A(Q,R)	TRANSISTOR		
⚠ Q54			2SB1640	TRANSISTOR		
Q113-117			2SC3906K	TRANSISTOR		
Q118			2SA1576A(R,S)	TRANSISTOR		
Q118			2SB1218A(Q,R)	TRANSISTOR		
Q119,120			2SC3906K	TRANSISTOR		
Q121			2SA1576A(R,S)	TRANSISTOR		
Q121			2SB1218A(Q,R)	TRANSISTOR		
Q122,123			2SC1845(F,E)	TRANSISTOR		
Q132			2SC3906K	TRANSISTOR		
Q133			2SB1566	TRANSISTOR		
Q134			2SC1845(F,E)	TRANSISTOR		
Q135			2SA1576A(R,S)	TRANSISTOR		
Q135			2SB1218A(Q,R)	TRANSISTOR		
Q136			UN5219	DIGITAL TRANSISTOR		
⚠ Q137			2SD2395	TRANSISTOR		
⚠ Q138			2SB1640	TRANSISTOR		
Q139-142			DTC123JUA	DIGITAL TRANSISTOR		
Q201			2SC4081(R,S)	TRANSISTOR		
Q201			2SD1819A(Q,R)	TRANSISTOR		
Q202			2SA1576A(R,S)	TRANSISTOR		
Q202			2SB1218A(Q,R)	TRANSISTOR		
Q203,204			2SD1819A(Q,R)	TRANSISTOR	YMI	
Q206,207			2SC4081(R,S)	TRANSISTOR	EE1T	
Q206,207			2SD1819A(Q,R)	TRANSISTOR	EE1T	
Q210,211			2SD1757K	TRANSISTOR		
Q212			2SA1576A(R,S)	TRANSISTOR		
Q212			2SB1218A(Q,R)	TRANSISTOR		
Q214			2SA1576A(R,S)	TRANSISTOR		
Q214			2SB1218A(Q,R)	TRANSISTOR		
Q601			2SC1740S(Q,R)	TRANSISTOR		
Q601			2SC2785(F,E)	TRANSISTOR		
A1			W02-2584-05	FM FRONT-END ASSY	EE1T	
A1			W02-2622-05	FM FRONT-END ASSY		789

PREAMPLIFIER UNIT (X08-3010-XX)

C1 ,2			CE04RW1C100M	ELECTRO	10UF	16WV		
C3			CK73FB1H103K	CHIP C	0.010UF	K		
C4			CC73FCH1H101J	CHIP C	100PF	J		
C5 ,6			CK73FB1H222K	CHIP C	2200PF	K		

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C7 ,8			CK73FB1E104K	CHIP C	0.10UF	K		
C9 ,10			CE04RW1C4R7M	ELECTRO	4.7UF	16WV		
C21			CK73FB1E104K	CHIP C	0.10UF	K		
C22			CE04LW1H100M	ELECTRO	10UF	50WV		
C23			CK73FB1H102K	CHIP C	1000PF	K		
C24 ,25			CK73FB1E104K	CHIP C	0.10UF	K		
C26			CK73FF1C105Z	CHIP C	1.0UF	Z		
C27		✻	C91-1597-05	CERAMIC	4.7UF	Z		
C29			CK73FB1H103K	CHIP C	0.010UF	K		
C31			CC73FCH1H220J	CHIP C	22PF	J		
C32			CK73FB1H472K	CHIP C	4700PF	K		
C33			CC73FCH1H220J	CHIP C	22PF	J		
C34			CK73FB1H472K	CHIP C	4700PF	K		
C35 ,36			CK73FF1C105Z	CHIP C	1.0UF	Z		
C37			CK73FF1C105Z	CHIP C	1.0UF	Z		89
C37			CK73FF1C105Z	CHIP C	1.0UF	Z	E	
C41			CC73FCH1H220J	CHIP C	22PF	J		
C42			CC73FCH1H270J	CHIP C	27PF	J		
C43 ,44			CK73FB1H102K	CHIP C	1000PF	K		
C45			CK73FB1H103K	CHIP C	0.010UF	K		
C46			CC73FCH1H220J	CHIP C	22PF	J		
C54 ,55			CC73FCH1H220J	CHIP C	22PF	J		
C56			CK73FB1H102K	CHIP C	1000PF	K		
C57			CK73FF1C105Z	CHIP C	1.0UF	Z		
C58 ,59			CK73FB1H103K	CHIP C	0.010UF	K		
C103,104			CK73FF1C105Z	CHIP C	1.0UF	Z		
C105,106			CK73FB1H182K	CHIP C	1800PF	K		
C107,108			CK73FB1H222K	CHIP C	2200PF	K		
C111,112			CC73FCH1H101J	CHIP C	100PF	J		
C121,122			CC73FCH1H220J	CHIP C	22PF	J		
C125			CK73FB1H103K	CHIP C	0.010UF	K		
C126			CC73FCH1H101J	CHIP C	100PF	J		
C141			CC73FCH1H101J	CHIP C	100PF	J		
C151,152			CK73FF1C225Z	CHIP C	2.2UF	Z		
C153,154			CC73FCH1H101J	CHIP C	100PF	J		
C155,156			CK73FF1C105Z	CHIP C	1.0UF	Z		
C157-160			CK73FF1C225Z	CHIP C	2.2UF	Z		
C161,162			CK73FB1H822K	CHIP C	8200PF	K		
C163,164			CK73FB1H153K	CHIP C	0.015UF	K	EE1TX	
C163,164			CK73FB1H153K	CHIP C	0.015UF	K	KPK1YI	
C163,164			CK73FB1H333K	CHIP C	0.033UF	K	M	
C165,166			CK73FB1C334K	CHIP C	0.33UF	K	EE1TX	
C165,166			CK73FB1C334K	CHIP C	0.33UF	K	I1X1K1	
C165,166			CK73FB1C474K	CHIP C	0.47UF	K	M	
C167,168			CK73FF1C225Z	CHIP C	2.2UF	Z		
C169,170			CK73FB1H222K	CHIP C	2200PF	K		
C177-182			CK73FF1C225Z	CHIP C	2.2UF	Z		
C183			CK73FF1C105Z	CHIP C	1.0UF	Z		
C184			CC73FCH1H221J	CHIP C	220PF	J		
C185,186			CK73FB1E104K	CHIP C	0.10UF	K		
C187,188			CK73FB1H102K	CHIP C	1000PF	K		
C203,204			CK73FF1C105Z	CHIP C	1.0UF	Z		
C205,206			CK73FB1H222K	CHIP C	2200PF	K		
C207,208			CK73FB1H102K	CHIP C	1000PF	K		
C209			CK73FB1H472K	CHIP C	4700PF	K	EE1TX	

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C209			CK73FB1H472K	CHIP C	4700PF	K	KPK1YI	
C210-212			CC73FCH1H101J	CHIP C	100PF	J		
C251-256			CC73FCH1H221J	CHIP C	220PF	J		
C303,304			CK73FF1C105Z	CHIP C	1.0UF	Z		
C305			CK73FB1H182K	CHIP C	1800PF	K		
C306			CK73FB1H682K	CHIP C	6800PF	K		
C307			CK73FB1H222K	CHIP C	2200PF	K		
C308			CK73FB1H822K	CHIP C	8200PF	K		
C309			CK73FB1H103K	CHIP C	0.010UF	K		
C310,311			CC73FCH1H101J	CHIP C	100PF	J		
C401-403			CK73FB1H103K	CHIP C	0.010UF	K		
C411-414			CC73FCH1H220J	CHIP C	22PF	J		
C415-418			CC73FCH1H101J	CHIP C	100PF	J		
C419			CC73FCH1H100D	CHIP C	10PF	D		
C450			CK73FB1H103K	CHIP C	0.010UF	K		
C451			CK73FB1E104K	CHIP C	0.10UF	K		
C452			CE04LW1C222M	ELECTRO	2200UF	16WV		
C453,454			CK73FB1E104K	CHIP C	0.10UF	K		
C455			CE04LW1A101M	ELECTRO	100UF	10WV		
C456,457			CK73FB1E104K	CHIP C	0.10UF	K		
C458			C92-0047-05	CHIP-ELE	47UF	6.3WV		
C459,460			CK73FB1E104K	CHIP C	0.10UF	K		
C461			CE04LW1E470M	ELECTRO	47UF	25WV		
C501-504			CK73FB1E104K	CHIP C	0.10UF	K		
C505			CK73FB1H102K	CHIP C	1000PF	K		
C506			CC73FCH1H471J	CHIP C	470PF	J		
C507			CK73FB1H103K	CHIP C	0.010UF	K		
C508			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C509			CE04LW1E470M	ELECTRO	47UF	25WV		
C510,511			CK73FB1H103K	CHIP C	0.010UF	K		
C601			CC73FCH1H470J	CHIP C	47PF	J		
C602			CE04LW1E470M	ELECTRO	47UF	25WV		
C603			CC73FCH1H470J	CHIP C	47PF	J		
C604			CE04LW1E470M	ELECTRO	47UF	25WV		
C605			CC73FCH1H470J	CHIP C	47PF	J		
C606			CE04LW1E470M	ELECTRO	47UF	25WV		
C607			CC73FCH1H470J	CHIP C	47PF	J		
C608			CE04LW1E470M	ELECTRO	47UF	25WV		
C609,610			CC73FCH1H470J	CHIP C	47PF	J		
C611			CE04LW1E470M	ELECTRO	47UF	25WV		
C621,622			CK73FB1E104K	CHIP C	0.10UF	K		
C651,652			CC73FCH1H470J	CHIP C	47PF	J		
C653			CK73FB1H103K	CHIP C	0.010UF	K		
C654			CE04LW1E470M	ELECTRO	47UF	25WV		
C655,656			CC73FCH1H470J	CHIP C	47PF	J		
C657			CK73FB1H103K	CHIP C	0.010UF	K		
C658			CE04LW1E470M	ELECTRO	47UF	25WV		
C659,660			CC73FCH1H470J	CHIP C	47PF	J		
C661			CK73FB1H103K	CHIP C	0.010UF	K		
C662			CE04LW1E470M	ELECTRO	47UF	25WV		
C663,664			CC73FCH1H470J	CHIP C	47PF	J		
C665			CK73FB1H103K	CHIP C	0.010UF	K		
C666			CE04LW1E470M	ELECTRO	47UF	25WV		
C667-670			CC73FCH1H470J	CHIP C	47PF	J		
C671			CK73FB1H103K	CHIP C	0.010UF	K		

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C672			CE04LW1E470M	ELECTRO	47UF		25WV		
C681,682			CE04LW1H100M	ELECTRO	10UF		50WV		
C751,752			CC73FCH1H221J	CHIP C	220PF		J		
C753			CK73FB1H103K	CHIP C	0.010UF		K		
CN1		✻	E40-8485-05	FLAT CABLE CONNECTOR					
CN2		✻	E40-8484-05	FLAT CABLE CONNECTOR					
CN3			E40-4297-05	FLAT CABLE CONNECTOR					
CN5			E40-4248-05	PIN ASSY					
CN5			E40-8358-05	PIN ASSY					
J1			E63-1080-05	PIN JACK					
J2		✻	E63-1139-05	PIN JACK					
J61		✻	E63-1142-05	PIN JACK					
J65 ,66			E56-0011-05	CYLINDRICAL RECEPTACLE					
J75			E11-0293-05	MINIATURE PHONE JACK(2P)					
E1			J11-0809-05	WIRE CLAMPER					
L31 ,32		✻	L92-0511-05	CHIP FERRITE					
L41		✻	L92-0510-05	CHIP FERRITE					
X1		✻	L77-2296-05	CRYSTAL RESONATOR(12.288MHZ)					
CP41-44			R90-0728-05	MULTI-COMP	180 X4				
CP51,52			R90-0714-05	MULTI-COMP	10K X4				
R1 ,2			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R3 ,4			RK73FB2A101J	CHIP R	100	J	1/10W		
R5 ,6			RK73FB2A471J	CHIP R	470	J	1/10W		
R7 -10			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R11 ,12			RK73FB2A471J	CHIP R	470	J	1/10W		
R20		✻	R92-1946-05	METAL GLAZE	4.7	J	1/4W		
R21			RK73FB2A221J	CHIP R	220	J	1/10W		
R31 ,32			RK73FB2A820J	CHIP R	82	J	1/10W		
R33			RK73FB2A471J	CHIP R	470	J	1/10W		
R34			RD14NB2E4R7J	RD	4.7	J	1/4W		
R35			RK73FB2A471J	CHIP R	470	J	1/10W		
R36			RD14NB2E4R7J	RD	4.7	J	1/4W		
R37			RK73FB2A471J	CHIP R	470	J	1/10W		89
R37			RK73FB2A471J	CHIP R	470	J	1/10W	E	
R38			RD14NB2E4R7J	RD	4.7	J	1/4W		89
R38			RD14NB2E4R7J	RD	4.7	J	1/4W	E	
R41 ,42			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R43 -45			RK73FB2A221J	CHIP R	220	J	1/10W		
R54			RK73FB2A912J	CHIP R	9.1K	J	1/10W		
R55 -58			RK73FB2A221J	CHIP R	220	J	1/10W		
R59			RK73FB2A101J	CHIP R	100	J	1/10W		
R66			RK73FB2A104J	CHIP R	100K	J	1/10W		
R67			RK73FB2A103J	CHIP R	10K	J	1/10W		
R68			RK73FB2A221J	CHIP R	220	J	1/10W		
R101,102			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R103,104			RK73FB2A104J	CHIP R	100K	J	1/10W		
R107,108			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R109,110			RK73FB2A103J	CHIP R	10K	J	1/10W		
R111,112			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R113,114			RK73FB2A221J	CHIP R	220	J	1/10W		
R121-124			RK73FB2A103J	CHIP R	10K	J	1/10W		
R125,126			RK73FB2A101J	CHIP R	100	J	1/10W		
R127,128			RK73FB2A242J	CHIP R	2.4K	J	1/10W		

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⑳

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R151-156			RK73FB2A100J	CHIP R	10	J	1/10W		
R157,158			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R159-164			RK73FB2A101J	CHIP R	100	J	1/10W		
R165			RK73FB2A751J	CHIP R	750	J	1/10W		
R166			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R168,169			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R170,171			RK73FB2A471J	CHIP R	470	J	1/10W		
R172-175			RK73FB2A473J	CHIP R	47K	J	1/10W		
R201,202			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R203,204			RK73FB2A104J	CHIP R	100K	J	1/10W		
R207,208			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R209,210			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R211,212			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R213,214			RK73FB2A221J	CHIP R	220	J	1/10W		
R215,216			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R217,218			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R251,252			RK73FB2A153J	CHIP R	15K	J	1/10W		
R253,254			RK73FB2A223J	CHIP R	22K	J	1/10W		
R255,256			RK73FB2A103J	CHIP R	10K	J	1/10W		
R257,258			RK73FB2A223J	CHIP R	22K	J	1/10W		
R259,260			RK73FB2A103J	CHIP R	10K	J	1/10W		
R261,262			RK73FB2A223J	CHIP R	22K	J	1/10W		
R301			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R302			RK73FB2A103J	CHIP R	10K	J	1/10W		
R303,304			RK73FB2A104J	CHIP R	100K	J	1/10W		
R307			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R308			RK73FB2A123J	CHIP R	12K	J	1/10W		
R309,310			RK73FB2A103J	CHIP R	10K	J	1/10W		
R311,312			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R313,314			RK73FB2A221J	CHIP R	220	J	1/10W		
R401-406			RK73FB2A471J	CHIP R	470	J	1/10W		
R407			RK73FB2A473J	CHIP R	47K	J	1/10W		
R412			RK73FB2A221J	CHIP R	220	J	1/10W		
R426,427			RK73FB2A221J	CHIP R	220	J	1/10W		
R428			RK73FB2A1R0J	CHIP R	1	J	1/10W		7
R428			RK73FB2A1R0J	CHIP R	1	J	1/10W	E1T	
R431,432			RK73FB2A103J	CHIP R	10K	J	1/10W		
R433			RK73FB2A473J	CHIP R	47K	J	1/10W		89
R433			RK73FB2A473J	CHIP R	47K	J	1/10W	E	
R434			RK73FB2A101J	CHIP R	100	J	1/10W		89
R434			RK73FB2A101J	CHIP R	100	J	1/10W	E	
⚠ R450			R92-1918-05	CHIP R	0.33	J	1/4W		
⚠ R451-453		✻	R92-1945-05	METAL GLAZE	1	J	1/4W		
⚠ R454		✻	R92-1946-05	METAL GLAZE	4.7	J	1/4W		
R461,462			RK73FB2A221J	CHIP R	220	J	1/10W		
R463			RK73FB2A473J	CHIP R	47K	J	1/10W		
R464			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R465			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R501-503			RK73FB2A221J	CHIP R	220	J	1/10W		
R505			RK73FB2A103J	CHIP R	10K	J	1/10W		
R514			RK73FB2A101J	CHIP R	100	J	1/10W		
R515			RK73FB2A221J	CHIP R	220	J	1/10W		
R516			RK73FB2A103J	CHIP R	10K	J	1/10W		
R517			RK73FB2A221J	CHIP R	220	J	1/10W		
R518			RK73FB2A472J	CHIP R	4.7K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R519			RK73FB2A221J	CHIP R	220	J	1/10W		
R520,521			RK73FB2A103J	CHIP R	10K	J	1/10W		
R522,523			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R524			RK73FB2A333J	CHIP R	33K	J	1/10W		
R527			RK73FB2A103J	CHIP R	10K	J	1/10W		
R601			RK73FB2A820J	CHIP R	82	J	1/10W		
R603			RK73FB2A820J	CHIP R	82	J	1/10W		
R605			RK73FB2A820J	CHIP R	82	J	1/10W		
R607			RK73FB2A820J	CHIP R	82	J	1/10W		
R609			RK73FB2A104J	CHIP R	100K	J	1/10W		
R610			RK73FB2A680J	CHIP R	68	J	1/10W		
R611			RK73FB2A104J	CHIP R	100K	J	1/10W		
R612			RK73FB2A680J	CHIP R	68	J	1/10W		
R631,632			RK73FB2A681J	CHIP R	680	J	1/10W		
⚠ R633,634		✻	R92-1954-05	METAL GLAZE	100	J	1/10W	EE1T	
⚠ R633,634		✻	R92-1954-05	METAL GLAZE	100	J	1/10W	KPIXY	
⚠ R633,634		✻	R92-1957-05	METAL GLAZE RESISTOR				M	
⚠ R635,636		✻	R92-1954-05	METAL GLAZE	100	J	1/10W	M	
R651-658			RK73FB2A820J	CHIP R	82	J	1/10W		
R659,660			RK73FB2A104J	CHIP R	100K	J	1/10W		
R661,662			RK73FB2A680J	CHIP R	68	J	1/10W		
R663,664			RK73FB2A104J	CHIP R	100K	J	1/10W		
R665,666			RK73FB2A680J	CHIP R	68	J	1/10W		
⚠ R681,682			RD14NB2E4R7J	RD	4.7	J	1/4W		
D1			DAN202U	DIODE					
D1			MA142WK	DIODE					
D1			1SS301	DIODE					
D2			DAP202U	DIODE					
D2			MA142WA	DIODE					
D2			1SS300	DIODE					
D3			DAN202U	DIODE					
D3			MA142WK	DIODE					
D3			1SS301	DIODE					
D6			MA111	DIODE					
⚠ D41			S1ZB20(4072)	DIODE					
D42 ,43			UDZ5.6B	ZENER DIODE					
D44			UDZ3.9B	ZENER DIODE					
D51 ,52			MA111	DIODE					
D61 ,62			UDZ5.6B	ZENER DIODE					
D75 ,76			MA111	DIODE					
D151,152			UDZ7.5B	ZENER DIODE					
IC1			NJM4565MD	IC(OP AMP X2)					
IC2		✻	AK4527-VQ	MOS-IC					
IC4			TC7WU04FU	MOS-IC					
IC5		✻	AK4110-VF	MOS-IC					
IC6		✻	TC7WH123FU	MOS-IC					
IC11			NJM4565MD	IC(OP AMP X2)					
IC12			NJU7311AM	MOS-IC					
IC13			NJM4565MD	IC(OP AMP X2)					
IC14			NJU7311AM	MOS-IC					
IC15			M62446FP	ANALOGUE IC					
IC21			NJM4565MD	IC(OP AMP X2)					
IC31			NJM4565MD	IC(OP AMP X2)					
IC41		✻	TC74HC07AF	MOS-IC					

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
IC42			TC74HCT7007AF	MOS-IC					
IC43		✻	TC7WH126FU	MOS-IC					89
IC43		✻	TC7WH126FU	MOS-IC				E	3
IC44		✻	AT25256WS2701	MOS-IC					89
IC44		✻	AT25256WS2701	MOS-IC				E	3
⚠ IC45		✻	TA48M05F	ANALOGUE IC					
⚠ IC46			TA48M033F	ANALOGUE IC					
⚠ IC47		✻	TA48M025F	ANALOGUE IC					
IC51		✻	CS493263-CLR	MOS-IC					
IC61			NJM2279M	ANALOGUE IC					
IC62		✻	NJU4052BV	MOS-IC					
IC62		✻	TC74HC4052AFT	MOS-IC					
IC66,67			NJM2279M	ANALOGUE IC					
IC68		✻	NJU4052BV	MOS-IC					
IC68		✻	TC74HC4052AFT	MOS-IC					
Q1			DTC124EUA	DIGITAL TRANSISTOR					
Q1			UN5212	DIGITAL TRANSISTOR					
⚠ Q15			2SD1664(Q,R)	TRANSISTOR					
⚠ Q15		✻	2SD1963(R,S)-G	TRANSISTOR					
⚠ Q16			2SB1132(Q,R)	TRANSISTOR					
⚠ Q16		✻	2SB1308(Q,R)-G	TRANSISTOR					
Q41			2SC4081(R,S)	TRANSISTOR					
Q41			2SD1819A(Q,R)	TRANSISTOR					
Q42			2SA1576A(R,S)	TRANSISTOR					
Q42			2SB1218A(Q,R)	TRANSISTOR					
⚠ Q61			2SD1664(Q,R)	TRANSISTOR					
⚠ Q61		✻	2SD1963(R,S)-G	TRANSISTOR					
⚠ Q62			2SB1132(Q,R)	TRANSISTOR					
⚠ Q62		✻	2SB1308(Q,R)-G	TRANSISTOR					
A1 ,2		✻	W02-2716-05	OPTIC RECEIVING MODULE					
A3			W02-2717-05	OSCILLATING MODULE					89
A3		✻	W02-2717-05	OSCILLATING MODULE				E	

DISPLAY UNIT (X14-7090-XX)

D1			B30-2567-05	LED(RED(80) HI-BR)					
D2 -6			B30-2545-05	LED(RED3(160))					
C1			CE04RW0J331M	ELECTRO	330UF	6.3WV		KPK1	
C1			CE04RW1A101M	ELECTRO	100UF	10WV		EE1T	
C1			CE04RW1A101M	ELECTRO	100UF	10WV		YMIX	
C2			CK73FB1H103K	CHIP C	0.010UF	K			
C3			CE04RW1H010M	ELECTRO	1.0UF	50WV			
C4 ,5			CE04RW1C100M	ELECTRO	10UF	16WV			
C6		✻	CE04RW0J100M	ELECTRO	10UF	6.3WV			
C7			CK73FB1H103K	CHIP C	0.010UF	K			
C9			CC73FCH1H470J	CHIP C	47PF	J			
C10 -19			CK73FB1H103K	CHIP C	0.010UF	K			
C20 ,21			CK73FB1C104K	CHIP C	0.10UF	K			
C22			CK73FF1C105Z	CHIP C	1.0UF	Z			
C23			CE04RW0J470M	ELECTRO	47UF	6.3WV			
C24			CE04RW0J470M	ELECTRO	47UF	6.3WV		EE1T	
C25			CK73FB1H103K	CHIP C	0.010UF	K		EE1T	
C26 ,27			CC73FCH1H270J	CHIP C	27PF	J		EE1T	
C28			CC73FCH1H561J	CHIP C	560PF	J		EE1T	
C29			CC73FCH1H271J	CHIP C	270PF	J		EE1T	
C30		✻	CE04RW1V2R2M	ELECTRO	2.2UF	35WV		EE1T	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
C31			CC73FCH1H101J	CHIP C	100PF	J		EE1T	
C32			CE04RW0J220M	ELECTRO	22UF	6.3WV			
C33 -35			CC73FCH1H101J	CHIP C	100PF	J			
C36 ,37			CC73FCH1H470J	CHIP C	47PF	J			
C38		✻	CE04RW1H330M	ELECTRO	33UF	50WV			
C39			CK73FB1H103K	CHIP C	0.010UF	K			
C40			C90-1826-05	BACKUP-C	0.047F	5.5WV		EE1T	
C40			C90-1826-05	BACKUP-C	0.047F	5.5WV		YMIX	
C41			CK73FB1H103K	CHIP C	0.010UF	K		YMI	
C42			CK73FB1H103K	CHIP C	0.010UF	K		YMIX	
C43 ,44			CC73FCH1H101J	CHIP C	100PF	J			
C45 ,46			CC73FCH1H470J	CHIP C	47PF	J			
C47			CC73FCH1H101J	CHIP C	100PF	J			
C48			CC73FCH1H101J	CHIP C	100PF	J		YMI	
C49			CE04RW0J331M	ELECTRO	330UF	6.3WV		KPK1	
C50			CC73FCH1H101J	CHIP C	100PF	J			
C51		✻	CE04RW1H2R2M	ELECTRO	2.2UF	50WV		YMI	
C52			CK73FB1H103K	CHIP C	0.010UF	K		EE1T	
C53			CC73FCH1H101J	CHIP C	100PF	J			
C54		✻	CE04RW1H4R7M	ELECTRO	4.7UF	50WV			
C55			CC73FCH1H470J	CHIP C	47PF	J			
C56			CC73FCH1H220J	CHIP C	22PF	J			
C57			CC73FCH1H221J	CHIP C	220PF	J			
C58			CC73FCH1H470J	CHIP C	47PF	J			
C59			CK73FF1C105Z	CHIP C	1.0UF	Z			
C61			CC73FCH1H101J	CHIP C	100PF	J		EE1T	
C101-107			CC73FCH1H101J	CHIP C	100PF	J			
CN1		✻	E40-8510-05	FLAT CABLE CONNECTOR					
CN2		✻	E40-8504-05	FLAT CABLE CONNECTOR					
CN3			E40-3247-05	PIN ASSY					
CN5			E40-3261-05	PIN ASSY					
J1			E11-0272-05	PHONE JACK					
J2			E63-1035-05	PIN JACK					
J2		✻	E63-1147-05	PIN JACK					
J3			E06-0709-05	CYLINDRICAL RECEPTACLE					
-			J19-5928-13	HOLDER					
-			J19-5928-13	HOLDER					
E5 ,6			J11-0808-05	WIRE CLAMPER					
X1		✻	L78-0714-05	RESONATOR	(8MHZ)				
X2			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)				EE1T	
CP1			R90-0855-05	MULTI-COMP	100KX5	J			
CP2 ,3			R90-0482-05	MULTI-COMP	100KX4	J	1/6W		
CP501			R90-0855-05	MULTI-COMP	100KX5	J			
CP502			R90-0850-05	MULTI-COMP	100KX3	J	1/6W		
R4			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R5			RK73FB2A103J	CHIP R	10K	J	1/10W		
R7			RK73FB2A104J	CHIP R	100K	J	1/10W		
R8			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R12			RK73FB2A331J	CHIP R	330	J	1/10W		
R13 ,14			RK73FB2A104J	CHIP R	100K	J	1/10W		
R15			RK73FB2A331J	CHIP R	330	J	1/10W		
R29			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R30 -34			RK73FB2A221J	CHIP R	220	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R36 ,37			RK73FB2A104J	CHIP R	100K	J	1/10W		
R38 -43			RK73FB2A103J	CHIP R	10K	J	1/10W		
R44 -49			RK73FB2A101J	CHIP R	100	J	1/10W		
R50			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R51			RK73FB2A102J	CHIP R	1.0K	J	1/10W	YMI	
R52 ,53			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R54 ,55			RK73FB2A103J	CHIP R	10K	J	1/10W	YMI	
R54 ,55			RK73FB2A472J	CHIP R	4.7K	J	1/10W	X	
R57 ,58			RK73FB2A223J	CHIP R	22K	J	1/10W		
R59 -63			RK73FB2A104J	CHIP R	100K	J	1/10W		
R64			RK73FB2A101J	CHIP R	100	J	1/10W		
R65 ,66			RK73FB2A103J	CHIP R	10K	J	1/10W		
R67			RD14NB2E222J	RD	2.2K	J	1/4W	YMI	
R71 ,72			RK73FB2A473J	CHIP R	47K	J	1/10W		
R83			RK73FB2A564J	CHIP R	560K	J	1/10W		
R86			RD14NB2E152J	RD	1.5K	J	1/4W	YMI	
R98			RK73FB2A104J	CHIP R	100K	J	1/10W		
R107-109			RK73FB2A104J	CHIP R	100K	J	1/10W		
R110			RK73FB2A1R0J	CHIP R	1	J	1/10W	EE1T	
R111			RK73FB2A101J	CHIP R	100	J	1/10W	EE1T	
R112			RK73FB2A473J	CHIP R	47K	J	1/10W	EE1T	
R113			RK73FB2A101J	CHIP R	100	J	1/10W	EE1T	
R114			RK73FB2A104J	CHIP R	100K	J	1/10W		
R118			RK73FB2A104J	CHIP R	100K	J	1/10W		
R119-126			RK73FB2A101J	CHIP R	100	J	1/10W		
R127-129			RK73FB2A104J	CHIP R	100K	J	1/10W		
R130			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R141,142			RK73FB2A104J	CHIP R	100K	J	1/10W		
R143			RK73FB2A101J	CHIP R	100	J	1/10W		
R151,152			RK73FB2A101J	CHIP R	100	J	1/10W		
R153,154			RK73FB2A104J	CHIP R	100K	J	1/10W		
R155			RK73FB2A101J	CHIP R	100	J	1/10W		
R156-158			RK73FB2A750J	CHIP R	75	J	1/10W		
R161,162			RK73FB2A104J	CHIP R	100K	J	1/10W		
R501,502			RK73FB2A104J	CHIP R	100K	J	1/10W		
W503			R92-0679-05	CHIP R	0 OHM				
W505			R92-0679-05	CHIP R	0 OHM			YMIX	
W507			R92-0679-05	CHIP R	0 OHM			EE1T	
W509			R92-0679-05	CHIP R	0 OHM				
W514			R92-0679-05	CHIP R	0 OHM				
S4 -16			S70-0031-05	TACT SWITCH					
⚠ S19			S68-0107-05	PUSH SWITCH				EE1T	
⚠ S19			S68-0107-05	PUSH SWITCH				YMIX	
S1			T99-0602-05	ROTARY ENCODER					
S2 ,3		✻	T99-0630-05	ROTARY ENCODER					
D7			HZS6.2N(B2)	ZENER DIODE					
D7			MTZJ6.2(B)	ZENER DIODE					
D8 ,9			RB721Q	DIODE					
D11 ,12			MA111	DIODE					
D13			HSS104A	DIODE				KPK1	
D13			1SS133	DIODE				KPK1	
D15 ,16			MA111	DIODE					
D17 -22			HSS104A	DIODE					
D17 -22			1SS133	DIODE					

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
Y : PX(Far East,Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China(Shanghai)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components .

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D24			HSS104A	DIODE	EE1TX	
D24			1SS133	DIODE	EE1TX	
D25			HSS104A	DIODE		7
D25			HSS104A	DIODE	E1T	3
D25			1SS133	DIODE		7
D25			1SS133	DIODE	E1T	3
D26			HSS104A	DIODE		89
D26			HSS104A	DIODE	E	3
D26			1SS133	DIODE		89
D26			1SS133	DIODE	E	3
D28			HSS104A	DIODE	EE1T	
D28			HSS104A	DIODE	YMIX	
D28			1SS133	DIODE	EE1T	
D28			1SS133	DIODE	YMIX	
D29			HSS104A	DIODE	X	
D29			1SS133	DIODE	X	
D30			HSS104A	DIODE	EE1T	
D30			1SS133	DIODE	EE1T	
D33			HSS104A	DIODE		
D33			1SS133	DIODE		
D35 ,36			MA111	DIODE	YMI	
ED1		✻	SVA-11MS22	FLUORESCENT INDICATOR TUBE		
ED1			11-MT-120GK	FLUORESCENT INDICATOR TUBE		
IC1		✻	MN101C35DRA	MI-COM IC		
IC2			S-80840ANY	ANALOGUE IC		
⚠ IC3		✻	TA78057F	ANALOGUE IC	EE1T	
⚠ IC3		✻	TA78057F	ANALOGUE IC	KPK1X	
IC4			BU1923F	ANALOGUE IC	EE1T	
IC5			S-80840ANY	ANALOGUE IC	YMI	
⚠ IC6			XC62FP5102P	ANALOGUE IC	YMI	
Q1			2SC4081(R,S)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q3 -5			2SC4081(R,S)	TRANSISTOR		
Q6 -11			UN5219	DIGITAL TRANSISTOR		
Q12 ,13			2SA1576A(R,S)	TRANSISTOR		
Q14			DTA124EUA	DIGITAL TRANSISTOR		
Q14			UN5112	DIGITAL TRANSISTOR		
A1			W02-2625-05	OPTIC RECEIVING MODULE		

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Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components .

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	*ABB.*	*Australia*	*Canada*	*China*	*England*	*Europe*	*Germany*	*Korea*	*Malaysia*
VR-407	*7*	-	P	-	-	-	-	-	-
KRF-V7030D		-	-	-	-	-	-	-	-
KRF-V7030D-S		X	-	-	-	-	-	-	I
VR-407-S		-	-	-	-	-	-	-	-
VR-409	*9*	-	P	-	-	-	-	-	-
KRF-V8030D		-	-	-	-	-	-	-	-
KRF-V8030D-S	*8*	X	-		-	-	-	-	I
KRF-V8030D	*3*	-	-	-	-	E	-	-	-
KRF-V7030D		-	-	-	T	E1	-	-	-

MODEL	*ABB.*	*Mexico*	*PX/AAFES*	*Russia*	*Scandinavia*	*Shanghai*	*USA*	*Other area*	
VR-407	*7*	-	-	-	-	-	K	-	-
KRF-V7030D		-	Y	-	-	-	-	-	-
KRF-V7030D-S		-	-	-	-	-	-	M	-
VR-407-S		-	-	-	-	-	K1	-	-
VR-409	9	-	-	-	-	-	K	-	-
KRF-V8030D		-	Y	-	-	-	-	-	-
KRF-V8030D-S	*8*	-	-	-	-	-	-	M	-
KRF-V8030D	*3*	-	-	-	-	-	-	-	-
KRF-V7030D		-	-	-	-	-	-	-	-

SPECIFICATIONS

For U.S.A and Canada

AUDIO section (VR-407)

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (20-20kH-z/VR-407, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W
- CENTER (20-20kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W
- SURROUND (20-20kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W

Total harmonic distortion ..... 0.055% (1 kHz, 50W, 8 Ω)
Frequency response
- CD ..... 10 Hz ~ 53 kHz, +0 dB, –3.0 dB

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- CD ..... 91 dB

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 27 kΩ
- CD ..... 200 mV / 47 kΩ
- MONITOR IN ..... 200 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 200 mV / 1 kΩ
- MONITOR OUT ..... 200 mV / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length
- Optical ..... (-15 dBm ~ -21 dBm), 660 nm ±30nm
- Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω
- S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
- (chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
- STEREO ..... 31.6 µV (75 Ω)/ 41.2 dBf

Total harmonic distortion (1 kHz)
- MONO ..... 0.6% (65 dBf input)
- STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)
- MONO ..... 75 dB (65 dBf input)
- STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 70 dB
Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 10 kHz step ..... 530 kHz ~ 1,700 kHz

Usable sensitivity (30% mod., S/N 20 dB) ..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

AC outlet
- SWITCHED ..... (total 150 W, 1.25 A max.)

Dimensions ..... W : 440 mm (17-5/16")
H : 143 mm (5-5/8")
D : 400 mm (15-3/4")
Weight (Net) ..... 7.2 kg (15.8 lb)

For other countries

AUDIO section (KRF-V7030D)

Effective power output during STEREO operation
- 1kHz,10% T.H.D.,at 8 Ω ..... 140 W + 140 W

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz , 20Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation
- FRONT (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 140 W + 140 W
- CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 140 W
- SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 140 W + 140 W

Total harmonic distortion ..... 0.055% (1 kHz, 50W, 8 Ω)
Frequency response
- CD ..... 10 Hz ~ 50 kHz, +0 dB, –3.0 dB

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- CD ..... 91 dB

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 27 kΩ
- CD ..... 200 mV / 47 kΩ
- MONITOR IN ..... 200 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 200 mV / 1 kΩ
- MONITOR OUT ..... 200 mV / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control
- BASS (For Australia and U.S-Military) ..... ±10 dB (at 100 Hz)
- BASS (Other countries) ..... ±10 dB (at 60 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length
- Optical ..... (-15 dBm ~ -21 dBm), 660 nm ±30nm
- Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω
- S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
- (chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
- STEREO ..... 31.6 µV (75 Ω)/ 41.2 dBf

Total harmonic distortion (1 kHz)
- MONO ..... 0.6% (65 dBf input)
- STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)
- MONO ..... 75 dB (65 dBf input)
- STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 9 kHz step ..... 531 kHz ~ 1,602 kHz
- 10 kHz step ..... 530 kHz ~ 1,610 kHz

Usable sensitivity ..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption
AC outlet
- SWITCHED ..... (total 90 W max.)

Dimensions ..... W : 440 mm
H : 143 mm
D : 400 mm

Weight (Net) ..... 7.4 kg

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V7030D/V8030D/VR-407/409

SPECIFICATIONS

For U.S.A and Canada (VR-409)

AUDIO section

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (20-20kHz, 0.7% T.H.D. at 8 Ω, one channel driven) ..... 100 W + 100 W
- CENTER (20-20kHz, 0.7% T.H.D. at 8 Ω, one channel driven) ..... 100 W
- SURROUND (20-20kHz, 0.7% T.H.D. at 8 Ω, one channel driven) 100 W + 100 W

Total harmonic distortion ..... 0.055% (1 kHz, 50W, 8 Ω)
Frequency response
- CD ..... 10 Hz ~ 53 kHz, +0 dB, –3.0 dB

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- CD ..... 91 dB

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 27 kΩ
- CD ..... 200 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 200 mV / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length
- Optical ..... (-15 dBm ~ -21 dBm), 660 nm ±30nm
- Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω
- S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
  (chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
- STEREO ..... 31.6 µV (75 Ω)/ 41.2 dBf

Total harmonic distortion (1 kHz)
- MONO ..... 0.6% (65 dBf input)
- STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)
- MONO ..... 75 dB (65 dBf input)
- STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 70 dB
Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 10 kHz step ..... 530 kHz ~ 1,700 kHz

Usable sensitivity (30% mod., S/N 20 dB)
..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption ..... 2.6 A
AC outlet
- SWITCHED ..... (total 150 W, 1.25 A max.)

Dimensions ..... W : 440 mm (17-5/16")
H : 143 mm (5-5/8")
D : 400 mm (15-3/4")
Weight (Net) ..... 7.4 kg (15.8 lb)

For other countries (KRF-V8030D)

AUDIO section

Effective power output during STEREO operation
1kHz,10% T.H.D.,at 8 Ω ..... 140 W + 140 W
Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation
- FRONT (1kHz, 10% T.H.D. at 8 Ω, one channel driven) ..... 140 W + 140 W
- CENTER (1kHz, 10% T.H.D. at 8 Ω, one channel driven) ..... 140 W
- SURROUND (1kHz, 10% T.H.D. at 8 Ω, one channel driven) ..... 140 W + 140 W

Total harmonic distortion ..... 0.055% (1 kHz, 50W, 8 Ω)
Frequency response
- CD ..... 10 Hz ~ 53 kHz, +0 dB, –3.0 dB

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- CD ..... 91 dB

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 27 kΩ
- CD ..... 200 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 200 mV / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control
- BASS (For Australia and U.S-Military) ..... ±10 dB (at 100 Hz)
- BASS (Other countries) ..... ±10 dB (at 60 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length
- Optical ..... (-15 dBm ~ -21 dBm), 660 nm ±30nm
- Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω
- S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
  (chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
- STEREO ..... 31.6 µV (75 Ω)/ 41.2 dBf

Total harmonic distortion (1 kHz)
- MONO ..... 0.6% (65 dBf input)
- STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)
- MONO ..... 75 dB (65 dBf input)
- STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 9 kHz step ..... 531 kHz ~ 1,602 kHz
- 10 kHz step ..... 530 kHz ~ 1,610 kHz

Usable sensitivity (30% mod., S/N 20 dB)
..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod. 1 mV input) ..... 70 dB

GENERAL

Power consumption ..... 250 W
AC outlet
- SWITCHED ..... (total 90 W max.)

Dimensions ..... W : 440 mm
H : 143 mm
D : 400 mm
Weight (Net) ..... 7.4 kg

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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